

A LIST OF THE TYPE-SPECIMENS OF  
PLECOPTERA AND MEGALOPTERA  
IN THE BRITISH MUSEUM  
(NATURAL HISTORY)



BY  
DOUGLAS ERIC KIMMINS

*Pp.* 335-361

BULLETIN OF  
THE BRITISH MUSEUM (NATURAL HISTORY)  
ENTOMOLOGY Vol. 24 No. 8  
LONDON: 1970

THE BULLETIN OF THE BRITISH MUSEUM  
(NATURAL HISTORY), instituted in 1949, is  
issued in five series corresponding to the Departments  
of the Museum, and an Historical series.

Parts will appear at irregular intervals as they become  
ready. Volumes will contain about three or four  
hundred pages, and will not necessarily be completed  
within one calendar year.

In 1965 a separate supplementary series of longer  
papers was instituted, numbered serially for each  
Department.

This paper is Vol. 24 No. 8 of the Entomological  
series. The abbreviated titles of periodicals cited  
follow those of the World List of Scientific Periodicals.

*World List* abbreviation  
*Bull. Br. Mus. nat. Hist. (Ent.)*

© Trustees of the British Museum (Natural History), 1970

TRUSTEES OF  
THE BRITISH MUSEUM (NATURAL HISTORY)

Issued 27 May, 1970

Price Seventeen Shillings  
(£0.85)

# A LIST OF THE TYPE-SPECIMENS OF PLECOPTERA AND MEGALOPTERA IN THE BRITISH MUSEUM (NATURAL HISTORY)

By D. E. KIMMINS

## CONTENTS

	<i>Page</i>
SYNOPSIS . . . . .	337
INTRODUCTION . . . . .	337
NOTES . . . . .	337
PLECOPTERA . . . . .	338
MEGALOPTERA . . . . .	352
REFERENCES . . . . .	358

## SYNOPSIS

In these lists, 171 taxa of Plecoptera and 74 taxa of Megaloptera are considered. Lectotypes are designated for 43 taxa of Plecoptera and 21 taxa of Megaloptera. The types of 8 other taxa of Plecoptera are either unlabelled and not recognizable from the descriptions, or have not been traced, being possibly in other collections.

## INTRODUCTION

THIS list follows the general pattern of my previous Odonata Type Lists, but as the Plecoptera and Megaloptera are relatively small orders, I have not considered it necessary to present separate lists for the various families, all the taxa being dealt with alphabetically under the respective orders, and a combined list of references is given.

## NOTES

1. The recognition of the individual types of the Plecoptera and Megaloptera described by Stephens presents some difficulties, since at some time since its presentation to the BMNH, the Stephens Collection was re-arranged by what McLachlan has described as a 'non-expert'. The specimens in most cases bore only a Stephens Collection label and were arranged over a small handwritten determination label. In few cases was there any indication of locality. During this re-arrangement, the various synonyms were placed together and the determination label placed on one of the series, with the result that it is almost impossible to differentiate the various type-series. In labelling types, the example bearing a determination label has been accepted as type, unless there is definite evidence to the contrary.

2. In the case of some of the Leptoperlid types from Australia, reference is made to the wings being mounted in de Faure's medium, a water-soluble mountant. This was recommended to me by the late Dr F. W. Edwards in the early 1940's. It works quite well for wings and other very thin objects, particularly if the mounts are ringed with varnish. I found it however quite unsuitable for use with thicker mounts, such as whole Leptoperlids. Shrinkage of the medium in drying caused

air to be drawn in and these preparations had eventually to be dissolved in warm water, dehydrated and cleared and remounted in canada balsam.

3. The Walker Type label is circular, bearing the word 'Type' and ringed with a green line. McLachlan's type label is small, rectangular, pink, red or purplish, bearing the word 'Type'.

#### PLECOPTERA

**abdominalis** Stephens (*Leuctra*), 1836 : 145; Mosely, 1932 : 33, pl. 2, fig. 7a. LECTOTYPE ♀. Stephens Coll. / abdominalis / klapáleki ♀ (not albida), det. K. G. Blair / Leuctra fusciventris Steph. (klapáleki Kny) M. E. Mosely det. / Leuctra abdominalis Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

The ♀ type is in fragments. Mosely (1932 : 33) restricted the type-series to the ♀ with abdomen mounted in canada balsam, and figured on pl. 2, fig. 7a. Currently placed as a synonym of *L. fusciventris* Stephens.

**abnormis** Newman (*Perla*), 1838 : 177-178. Holotype ♀. Abnormis Newman, Ent. Mag. V.177, Trenton Falls, N. A. (*R. Foster*) / Perla abnormis Newm., ♀ Holotype.

Newman's label is much blackened and has been transcribed. Currently placed in *Acroneuria*.

**acicularis** Despax (*Chloroperla*), 1934 : 367-370, pls 1, fig. 4; 4, fig. 15; 11, fig. 30; text-figs 22-24. Holotype ♂ (in 2% formaldehyde solution and on two microscope preparations). [France, Cantal], Le Lioran, 9-19.vii.[19]24 (M. E. Mosely), Chl. acicularis Despax, ♂ Type. Currently placed in *Isoperla*.

**aethiops** Walker (*Perla*), 1852 : 154. Holotype ♀. Walker type-label / Mexico / 45. PERLA ÆTHIOPS [printed label from Walker's catalogue] / Anacroneuria [C. G. Froelich, 1968]. Currently placed in *Anacroneuria*.

**affinis** Stephens (*Nemoura*), 1836 : 141. LECTOTYPE [sex unknown]. Stephens Coll. / Nemoura affinis Steph., Lectotype, D. E. Kimmins det. 1969.

The lectotype lacks its abdomen, sex unknown. Currently placed as a synonym of *Nemoura cinerea* (Retzius).

**albidipennis** Walker (*Nemoura*), 1852 : 191; Ricker, 1938 : 133, fig. 8. Holotype ♀. Walker type-label / R [on green paper] / Nova Scotia (Redman) / Nemoura albidipennis Walk., ♀ Holotype, D. E. Kimmins det. 1959.

Hind wings mounted dry between celluloid, metathorax and abdomen cleared and mounted in canada balsam. Currently placed in *Nemoura* (*Ostrocerca*).

**albomacula** Kimmins (*Udamocercia*), 1951 : 90-91, figs 39, 40a-c. Holotype ♂. Tas[mania], Cradle Mt, 16.i.[19]17 (*R. J. Tillyard*). / Udamocercia albomacula Kimm., ♂ Type.

One pair of wings mounted dry, genitalia in canada balsam, attached to specimen pin. Currently placed in *Kimminsoperla*.

**anglica** Aubert (ssp. *Capnia vidua*), 1950 : 315-316, fig. 35. Holotype ♂ (in 2% formaldehyde solution). [England], Cheshire, Woodhead, 1.iv.1933 (*H. Britten*) / Capnia anglica Aub., ♂ Holotype, ♀ allotype, designated by D. E. Kimmins (i.l.), 1950.

**anglica** Kimmins (*Rhabdiopteryx*), 1943 : 42-44, 8 text-figs. Holotype ♂. [England], Yorks[hire], Pickering Beck, 28.iii.1942 (*H. Whitehead*) / Rhabdiopteryx anglica Kim., ♂ Holotype.

**bifasciata** Kimmins (*Udamocercia*), 1951 : 91-92, figs 40d-f. Holotype ♂. Tasmania (J. W. Evans) / Udamocercia bifasciata Kim., ♂ Type.

Mounted as two preparations, in canada balsam. Currently placed in the genus *Kimminsoperla*.

**biloba** Newman (*Pteronarcys*), 1898 : 176. Holotype ♀. Pteronarcys Newman. Biloba Newman, Ent. Mag. V. 176, Trenton Falls, N.A. (*R. Foster*).

The label is blackened but still legible. Currently placed as *Pteronarcys* (*Allonarcys*).

**bituberculata** Kimmins (*Nemoura*), 1950a : 208–209, fig. 17. Holotype ♀. Assam, Delai valley, Taphlogam, 4000 ft, 11.xi.1936 (*M. Steele*) / Nemoura bituberculata Kimm. ♂ H.T. Type.

Mounted as two preparations, in canada balsam.

**brevipennis** Kimmins (*Dinotoperla*), 1951 : 67–68, figs 18a–e. Holotype ♂. [Australia], New South Wales, Bolaro, 22.xii.1935 (*R. J. Tillyard*) / Dinotoperla brevipennis Kim., ♂ TYPE.

Mounted as two preparations, wings in de Faure's medium, remainder in canada balsam.

**bullata** Kimmins (*Spaniocerca*), 1951 : 88–90, figs 38a–e. Holotype ♂. Tasmania (*J. W. Evans*) / Spaniocerca bullata Kimmins, ♂ TYPE.

Mounted as two preparations in canada balsam.

**californicus** Newport (*Pteronarcys*), 1848 : 388; 1851 : 450. Holotype ♂. California (Hartweg) / Pteronarcys californica Newport, Proc. Linn. Soc. 1848 / Pteronarcys californicus Newp., ♂ Holotype, D. E. Kimmins det. 1969.

The first description of this species is in *Proc. Linn. Soc. Lond.* for 20.vi.1848, and it should be noted that the actual date of publication of p. 388 was 1848, but p. 389 was not published until 1849. The paper subsequently appeared in the *Trans. Linn. Soc. Lond.* 20 (3) : 444–452, in 1851.

[**cambrica** Stephens (*Nemoura*), 1836 : 143. I have been unable to recognize the type-specimen of *cambrica* in the Stephens Collection, the three possible examples (females) being smaller than the dimensions given by Stephens.]

[**carpenteri** Tillyard (*Dinotoperla*), 1921b : 270–274, 4 text-figs.

The type of this species did not come to the BMNH with the Tillyard Bequest. It may still be in the Cawthron Institute, Nelson, N.Z.]

**chrysostoma** Klapálek (*Brahmana*), 1916 : 63. LECTOTYPE ♀. Mungphu (Atkinson) / chrysostoma, Klapálek / Brahmana chrysostoma Klap., ♀ Lectotype, D. E. Kimmins det. 1969.

**citronella** Newport (*Perla*), 1848 : 388; Walker, 1851 : 169–170 (as *citrinella*); Ricker, 1948 : 144–145, figs 28–30 (♀ lectotype designated). Lectotype ♀. [Canada], Hudson's Bay, [Albany River, St. Martin's Falls] / 269 or 668, Perla citronella / Perla citronella Newp., ♂ Lectotype, design. W. E. Ricker, 1938.

Currently placed in *Isoperla*. For note on date of publication, see *californicus* (*Pteronarcys*), p. 00.

**clio** Newman (*Isogenus*), 1839 : 415. LECTOTYPE ♂. Georgia / Perla Clio / Isogenus clio Newm., ♂ Lectotype, D. E. Kimmins det. 1969.

The lectotype has the abdomen cleared and mounted in canada balsam. There is one ♂ paralectotype.

**clymene** Newman (*Chloroperla*), 1839 : 87. Holotype ♀. Georgia / Clymene Newm. / clymene, Klapálek.

Currently placed in *Neoperla*.

**compacta** McLachlan (*Dictyopteryx*), 1872 : 53–54, pl. 1, figs 6, 7–7b. LECTOTYPE ♂. Type [McL. label] / Sibir. Or. (Maack) / compacta McL. / Dictyopteryx compacta McL., ♂ Lectotype, D. E. Kimmins det. 1969.

The BMNH also possesses the ♀ paralectotype of this species. Currently placed in the genus *Arcynopteryx*.

**completa** Walker (*Nemoura*), 1881 : 191–192; Ricker, 1938 : 133. Holotype ♂. Walker type-label / R [on green paper] / N[ova] Scotia (Redman) / 52. NEMOURA COMPLETA [label cut from Walker's catalogue] / Nemoura. W. R[icker].

The abdomen of the type has been cleared and mounted in canada balsam. Currently placed in *Nemoura (Prostoia)*, of which it is the type-species.

**concolor** Banks (*Peltoperla*), 1931a : 411-412. LECTOTYPE ♂. B[ritish] N[orth] Borneo, Mt Kinabalu, Kamborangah, 7000 ft, 27.iii.1929 (H. M. Pendlebury) [ex F.M.S. Museum] / Peltoperla concolor Bks, *type* / Peltoperla concolor Bks, ♂ Lectotype, D. E. Kimmins det. 1969.

**cordata** Kimmins (*Capnia*), 1947 : 733-734, figs 9, A-D. Holotype ♂. Tibet, Gyantse, 13000 ft, 28.vi.1928 (F. M. Bailey) / Capnia cordata Kimm., ♂ Type, 1946, D. E. Kimmins det.

Type pinned (in poor condition), abdomen cleared and mounted in canada balsam.

**cruciata** Stephens (*Nemoura*), 1836 : 141. LECTOTYPE ♀. Stephens Coll. / cruciata / Nemoura cruciata Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

Currently placed as a synonym of *Nemoura cinerea* (Retzius).

**corsicana** Morton (*Nemura (Protonemura)*), 1930 : 80-81, pl. 2, figs 3-5. LECTOTYPE ♂. Corsica, Corte, 21.v.-8.vi.1928 (M. E. Mosely) / Nemoura corsicana Morton, ♂ Lectotype, D. E. Kimmins det. 1969.

Morton did not specify a type nor its location, but Mosely had labelled the preparations, from which Morton's genitalia figures were drawn, as Type. To validate his action, I have designated these preparations as Lectotype. Currently placed in the genus *Protonemura*.

**cydippe** Newman (*Chloroperla*), 1839 : 88. Lectotype ♀ (Ricker, 1938 : 148, fig. 38). Georgia, 18a / 88. PERLA CYDIPPE (label cut from Walker's catalogue) / Chloroperla cydippe Newman, ♀ Lectotype, W. E. Ricker, 1938.

One pair of wings mounted dry, abdomen in canada balsam. Currently placed in *Hastaperla*.

[**cymodoce** Newman (*Perla*), 1839 : 37. No types of this species found in BMNH.]

**cyrene** Newman (*Chloroperla*), 1845 : 853; Kimmins, 1938 : 564-566, figs 3-4. Holotype ♂. Saunders [Collection] / Chloroperla Cyrene, New Zealand.

One pair of wings mounted dry, abdomen in canada balsam. Currently placed in *Austroperla*.

**decisa** Walker (*Perla (Chloroperla)*), 1852 : 170. Holotype ♂. Walker type-label / Hudson's Bay, [Albany River, St Martin's Falls] / Perla (Chloroperla) decisa Walker, ♂ Holotype, D. E. Kimmins det. 1969.

The holotype has one pair of wings mounted dry between celluloid and the abdomen cleared and mounted in canada balsam. Currently placed in *Isogenus (Cultus)*.

**decolorata** Walker (*Perla (Chloroperla)*), 1852 : 170; Ricker, 1938 : 145-146, fig. 31. LECTOTYPE ♀. Walker type-label / N[orth] Amer[ica], Gt Bear L[ake] / 98. PERLA DECOLORATA [label cut from Walker catalogue] / Perla decolorata Walker, ♀ Lectotype, D. E. Kimmins det. 1969.

Abdomen of lectotype cleared and mounted in canada balsam, for study by Ricker. Currently placed in *Isoperla*. There is also one incomplete paralectotype.

**despaxi** Mosely (*Leuctra*), 1930 : 249-250, figs 27-28. Holotype ♂. France, Pyrénées Orientales, R. Tet, Mont Louis, 22.vi-2.vii.1923 (M. E. Mosely) / Leuctra despaxi Mosely ♂ Type.

The holotype is a whole insect, cleared and mounted as a microscope preparation in euparal.

**dichroa** McLachlan (*Dictyopteryx*), 1872 : 52-53, pl. 1, figs 4-4a, 5-5b. LECTOTYPE ♂. Type [McL. label] / Sibir. orient. (Maa[c]k) / dichroa McL. / Dictyopteryx dichroa McL., ♂ Lectotype, D. E. Kimmins det. 1969.

The type-series in BMNH includes 1 ♂ and 1 ♀ paralectotypes. Currently placed in the genus *Arcynopteryx*.

**diminuta** Kimmins (*Megaleptoperla*), 1938 : 568–570, figs 6, 7. Holotype ♂. New Zealand, Ohakune, 1922–1923 (T. R. Harris) / Megaleptoperla diminuta Kimmins, ♂ Type, det. D. E. Kimmins.

The abdomen of the type has been cleared and mounted in Canada balsam. Fig. 2 shows the ♀ wings, not those of the ♂; the anterior branch of 3A is erroneously shown as forked.

[**diversipes** Tillyard (*Tasmanoperla*), 1931 : 41.

The type of this species did not come to the BMNH with the Tillyard Bequest collection.]

**divisa** Klapálek (var. of *Togoperla picta* Klapálek), 1921 : 64. LECTOTYPE ♂. N. China [Shanghai, Fortune Coll.] / infuscata Klapálek / var. divisa / *Togoperla picta* var. *divisa* Klap., ♂ Lectotype, D. E. Kimmins det. 1969.

This specimen has been labelled 'Type' for many years. The second syntype, from China, is Walker's spec. 'b' of *infuscata* and is a ♂, not a ♀ as stated by Klapálek.

**dorsalis** Kimmins (*Kyphopteryx*), 1947 : 725–727, figs 1B, 3A–G. Holotype ♂. Tibet, Chumbi Valley, 11000 ft, 2.iv.1924 (R. W. G. Hingston), Everest Exped. / *Kyphopteryx dorsalis* Kim., ♂ Type.

One pair of wings mounted dry, the other pair and the remainder of the type in Canada balsam (3 slides).

**drymo** Newman (*Isogenus*), 1839 : 86. LECTOTYPE ♀. Georgia / *Perla drymo* [with addition 'OK WR'] / *Isogenus drymo* Newman, ♀ Lectotype, D. E. Kimmins det. 1969.

There is also a ♀ paralectotype. Currently placed in *Perlinella*.

**ephyre** Newman (*Chloroperla*), 1839 : 87–88. Holotype ♀. Georgia / 17. *Ephyre* Newman, Georgia, 17 / Having only 2 ocelli this species belongs (according to Klapálek) to genus *Atoperla*, C.J.G.

**eulegnica** Tillyard (ssp. of *Eusthenia spectabilis*), 1921a : 230, pl. 13, fig. 4. Holotype ♀. Tasmania, Tyenna, 29.xii.[19]16 (C. E. Cole) / *Eusthenia spectabilis eulegnica* n. subsp., ♀ Holotype, R.J.T.

**evansi** Kimmins (*Dinotoperla*), 1951 : 70–71, figs 20a–c, 21a. Holotype ♂. S. Australia, Mt Lofty, x.1931 (J. W. Evans) / *Dinotoperla evansi* Kim., ♂ TYPE.

Mounted as three preparations, wings dry, remainder in Canada balsam.

**exigua** Kimmins (*Leptoperla*), 1951 : 53–54, figs 6a–d. Holotype ♂. W[est] Australia, Kelmscott, 22.xi.[19]32 (R. J. Tillyard) / *Leptoperla exigua* Kim., ♂ TYPE.

Mounted as two preparations, wings in de Faure's medium, remainder in Canada balsam.

**exilis** McLachlan (*Perla*), 1872 : 54–55, pl. 1, figs 8, 8a. Holotype ♀. Type [McL. label] / Sibir. orient. (*Maa[c]k*) / *exilis* McL. / *Perla exilis* McL., ♂ Holotype, D. E. Kimmins det. 1969.

Illies (1966, *Tierreich*, 32 : 501) treats this as a *nomen oblitum*.

**extensa** Tillyard (ssp. *Eusthenia purpureascens*), 1921a : 230. Holotype ♀. Tasmania, Russell, 26.xii.1916 (C. E. Cole) / *Eusthenia purpureascens extensa* n. subsp., ♀ Holotype, R.J.T.

**falcula** Kimmins (*Protonemura*), 1950a : 196–198, figs 1–3. Holotype ♂. Assam, Mishmi Hills, Chhaglon, 5350 ft, 26.ii.1935 (M. Steele) / *Protonemura falcata* Kim., ♂ TYPE.

Mounted as two preparations in Canada balsam.

**fascipennis** Banks (*Javanita*), 1931 : 378. LECTOTYPE ♂. Peninsular Siam, Nakon Sri Tamarat, Khao Ram, 750 ft, 24.ii.1922 (H. M. Pendlebury) / Ex F.M.S. Museums / *Javanita fascipennis* Bks type / *Javanita fascipennis* Bks, ♂ Lectotype, D. E. Kimmins det. 1969.

Currently placed as *Neoperla*.

**fasciata** Tillyard (*Dinotoperla*), 1924 : 193. Holotype ♀. Q[ueensland], National Park, 1500–2000 ft, 20.ii.[19]21 [A. J. Turner] / *Dinotoperla fasciata* Till., Holotype ♀, R.J.T.

One pair of wings mounted dry, in celluloid.

**ferruginea** Walker (*Nemoura (Leuctra)*), 1851 : 183; Ricker, 1938 : 134, fig. (Lectotype ♀ designated). Lectotype ♀. Walker type-label / R on green label [Redman] / Nova Scotia

(Redman) / 18. NEMOURA FERRUGINEA [label cut from Walker catalogue] / *Nemoura ferruginea* Walker, ♀ Lectotype, design. W. E. Ricker, 1938.

Currently placed in the genus *Leuctra*. Ricker's designation of lectotype appears a little vague, but as he states that the lectotype was used as the basis of the figure, and only one example was cleared for drawing, that specimen only can be the lectotype. There are two paralectotypes.

*filigera* Kimmins (*Amphinemura*), 1947 : 730-731, figs 6A-C. Holotype ♂. [India], Bengal, Darjeeling distr., xi.1945 (D. E. Kimmins) / *Amphinemura filigera* Kim., ♂ Type.

Type with wings mounted dry, remainder in canada balsam.

*flavescens* Kimmins (*Nesoperla*), 1938 : 570-571, figs 8A-C. Holotype ♀. New Zealand, [S. Island], L. Wakatipu, ii.1911 (G. V. Hudson) / *Nesoperla flavescens* Kimm., ♀ Type, det. D. E. Kimmins.

One pair of wings mounted dry, apex of abdomen in canada balsam.

*flavomaculata* Mosely (*Leuctra*), 1935 : 560-561, figs 4-5. Holotype ♂. France, Puy-de-Dôme, Le Mont-Dore, 24.vi-6.viii.1934 (M. E. Mosely) / *Leuctra flavomaculata* Mosely, ♂ Type.

The ♂ type was taken coupled, and the two specimens have been cleared and mounted as a preparation in euparal. Mosely specified the ♂ as Type, the ♀ as paratype.

*flavotincta* McLachlan (*Perla*), 1872 : 54, pl. 1, figs 9-9a. Holotype ♀. Type [McL. label] / Sib. Or. (Maack) / *flavotincta* McL. / *Perla flavotincta* McL., ♂ Holotype, D. E. Kimmins det. 1969.

Currently placed in the genus *Paragnetina*.

*fontana* Kimmins (*Dinotoperla*), 1951 : 64-66, figs 16a-e. Holotype ♂. Australia / F[eederal] C[apital] T[erritory], Lee's Springs, xi.1932 (R. J. Tillyard) / *Dinotoperla fontana* Kim., ♂ TYPE.

Mounted as three preparations, wings in de Faure's medium, remainder in canada balsam.

*foveolata* Klapálek (*Neoperla*), 1921 : 321. LECTOTYPE ♂. Hong Kong / *foveolata* Klapálek / triangle of black paper / *Neoperla foveolata* Klap., ♂ Lectotype, D. E. Kimmins det. 1969.

There are also 1 ♂, 1 ♀ paralectotypes from N. China.

*fraterna* Banks (*Nogiperla*), 1938 : 223, figs 7, 14. Holotype ♀. F[eederated] M[alay] S[tates], Pahang, Cameron's Highlands, 4800-5500 ft, 8.vi.1935 (H. M. Pendlebury) / E. F.M.S. Museums / *Nogiperla fraterna* Banks, Type.

*fraterna* Morton (*Leuctra*), 1930 : 79, pl. 2, figs 6-7; Mosely, 1932 : 20. LECTOTYPE ♂. Corsica, Corte, 21.v.-8.vi.1928 (M. E. Mosely) / *Leuctra fraterna* Morton [M.E.M. label] / *Leuctra fraterna* Morton, ♂ Lectotype, D. E. Kimmins det. 1969.

Mosely (1932) stated that the type was a preparation in his collection and he placed a BM type-label on it. This has now been replaced by my Lectotype label.

*frontalis* Newman (*Isogenus*), 1838 : 178. LECTOTYPE ♀ [incomplete]. *Isogenus* Newman. *Frontalis* Newman, Ent. Mag. V, 178, Trenton Falls, N. A. (R. Foster) / *Isogenus frontalis* Newman, ♀ Lectotype, D. E. Kimmins det. 1969.

Currently placed as *Isogenus* (*Isogenoides*). There is one ♀ paralectotype, labelled R. Foster, New York.

*fuliginosa* Stephens (*Nemoura*), 1836 : 141. LECTOTYPE ♀. Stephens Coll. / *fuliginosa* / *Nemoura fuliginosa* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

Currently placed as a synonym of *Nemoura cinerea* (Retzius).

*fumosa* Stephens (*Nemoura*), 1836 : 143. LECTOTYPE [?sex]. Stephens Coll. / *fumosus* / *Nemoura fumosa* Steph., Lectotype, D. E. Kimmins det. 1969.

Morton (1894 : 571) states that this is *Nemoura cinerea* Olivier [= *Amphinemura sulcicollis* (Stephens)]. The type now lacks its abdomen.

**fusca** Kimmins (*Dinotoperla*), 1951 : 71–72, figs 21 b, c. Holotype ♀. Tasmania (J. W. Evans) / *Dinotoperla fusca* Kim., ♀ TYPE.

Mounted as two preparations in canada balsam.

[**fuscipennis** Stephens (*Chloroperla*), 1836 : 138. Type unlabelled and not recognizable from Stephens' description.]

**fusciventris** Stephens (*Leuctra*), 1836 : 145; Mosely, 1932 : 32–33, text-figs 50–51, pl. 2, fig. 7. Lectotype ♂. Stephens Coll. / *fusciventris* / *Leuctra fusciventris* Steph., ♂ Lectotype, D. E. Kimmins det. 1969.

Mosely (1932 : 33) restricted the type-series to the ♂, of which the abdomen had been cleared, mounted in canada balsam and figured on pl. 2, and in effect designated this specimen as a lectotype.

**geniculata** Stephens (*Leuctra*), 1836 : 145. LECTOTYPE ♀. Stephens Coll. / *geniculata* / *Leuctra geniculata* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

One other ♀ example remains in the Stephens Coll., and has been labelled as a paralectotype.

**glacialis** Newport (*Nemoura (Brachyptera)*), 1849 : 389; 1851 : 451; Walker, 1851 : 192; Ricker, 1938 : 131, 132, figs 1–7 (lectotype designation). Lectotype ♂. Hudson's Bay, [Albany River, St Martins Falls] / *Nemoura glacialis* Newport Holotype (= *Taeniopteryx*, s. l.) W. E. Ricker.

The lectotype has one pair of wings mounted dry and the abdomen in canada balsam. For notes on date of publication, see *Pteronarcys californicus* Newport.

**hamulata** Morton (*Isopteryx*), 1930 : 78–79, pl. 2, figs 8–9. LECTOTYPE ♂. Corsica, Corte, 21.v–8.vi.1928 (M. E. Mosely) / *Isopteryx hamulata* Morton, ♂ Type [M.E.M. label] / *Isopteryx hamulata* Morton, ♂ Lectotype, D. E. Kimmins det. 1969.

Type mounted as two preparations, one in canada balsam, one pair of wings mounted dry. I consider this to be a synonym of *Chloroperla apicalis* (Newman). Currently placed in the genus *Chloroperla*.

**hingstoni** Kimmins (*Capnia*), 1947 : 732–733, figs 8A–F. Holotype ♂. Sikkim, Gnatang, 12000 ft, 31.iii.1924 (R. W. G. Hingston) Everest Exped. *Capnia hingstoni* Kim., ♂ Type.

Type on microscope slides, wings dry, remainder in canada balsam.

**hudsoni** Kimmins (*Spaniocercoides*), 1938 : 577–579, figs 13–15. Holotype ♂. New Zealand (G. V. Hudson) / Korokoro, 12.x.1923 / *Spaniocercoides hudsoni* Kimmins, ♂ Type, det. D. E. Kimmins.

**indica** Kimmins (*Protoneamura*?) 1947 : 727–728, figs 4A–C. Holotype ♂. [India], Bengal, Darjeeling district, xi.1945 (D. E. Kimmins).

Type preserved in 2% formaldehyde solution.

**insularis** Morton (*Chloroperla*), 1930 : 77–78, pl. 2, figs 1–2. LECTOTYPE ♂. Corsica, Corte, 21.v–8.vi.1928 (M. E. Mosely) / *Chloroperla insularis* Morton ♂ Type / *Chloroperla insularis* Morton, ♂ Lectotype, D. E. Kimmins det. 1969 (see note to *Nemura corsicana*, p. 340).

Lectotype mounted as preparations in canada balsam, one pair of wings mounted dry. Currently placed in the genus *Isoperla*.

**internata** Walker (*Perla*), 1852 : 152–153; Ricker, 1938 : 139, figs 14, 15. Holotype ♀. Walker type label / North America? / Ent[omological] Club, [18]44–12 / 41. PERLA INTERNATA [label cut from Walker's Catalogue]. /

The type is now much faded. Currently placed in *Acroneuria*.

**intermixta** Walker (*Perla*), 1852 : 153. Holotype ♀. Walker type label / Venezuela / 42. PERLA INTERMIXTA [label cut from Walker's Catalogue] / *Anacroneuria intermixta* (W.) ♀ [label by C. G. Froehlich, vii.1968].

Illies, 1968 : 503 places this species as a *nomen oblitum*.

**irrorata** Tillyard (*Trinotoperla*), 1924 : 194, fig. 1. Holotype ♀. N[ew] S[outh] W[ales], [Mt] Kosciusko, [5000–5500 ft], 24.xi.1921 (R. J. Tillyard) / *Trinotoperla irrorata* Till., Holotype ♀, R.J.T.

Holotype body much damaged by insect pests when received in Tillyard Bequest, one pair of wings mounted dry between celluloid, ♂ allotype also with body much damaged by pests.

**kempnyi** Mosely (*Leuctra*), 1932 : 14, pl. 3, figs 14, 14a; text-figs 13–14. Holotype ♂. France, B[asses] Pyrénées, Eaux-Bonnes, 4–21.vii.1924 (M. E. Mosely) / *Leuctra kempnyi* Mosely ♂ ♀. Taken coupled. Type ♂.

Of the pair, mounted as microscope preparation in euparal, Mosely specifies the ♂ as type, the ♀ as paratype.

[**lacrimosa** Klapálek (*Paragnetina*), 1921 : 62. Type not traced in BMNH.]

**lacustris** Tillyard (*Eusthenia*), 1921a : 231–232, pl. 12, fig. 5. Holotype ♀. Tas[mania], Cradle Mt., [Lake Lilla], 12.i.[19]17 (R. J. Tillyard) / *Eusthenia lacustris* n. sp., ♀ Holotype, R.J.T.

Allotype ♂ and 1 incomplete ♀ paratype also in BMNH.

**larvata** Klapálek (*Tetropina*), 1909 : 223 (in key). LECTOTYPE ♂. N.W. Borneo, Baram / larvata, Klapálek / *Tetropina larvata* Klap., ♂ Lectotype, D. E. Kimmins det. 1969.

I have selected the BMNH example as lectotype, as it is the example which is figured.

**lateralis** Stephens (*Chloroperla*), 1836 : 138. LECTOTYPE ♂. Stephens Coll. / *Chloroperla lateralis* Steph., ♂ Lectotype, D. E. Kimmins det. 1969.

Abdomen mounted in canada balsam. Currently placed as a synonym of *Isoperla grammatica* (Scopoli).

**levida** Klapálek (*Anacroneuria*), 1922 : 91. Holotype (?sex). Cent[ral] Brazil, Chapada, 2600 ft, xi.1902 (A. Robert) / *levida*, Klapálek / *Anacroneuria levida* Klap., Holotype.

Most of abdomen missing.

**lugubris** McLachlan (*Perla*), 1875 : 172–173. Holotype ♂, Japan, [Kobé (Lewis)] / *Perla lugubris*, McL. (Type).

Currently placed in the genus *Kiotina*.

**lunata** Kimmins (*Rhabdiopteryx*), 1947 : 722–724, figs 1A, 2A–F. Holotype ♂. Tibet, Rongbuk, 15500 ft, 22.v.1924 (R. W. G. Hingston) / Everest Exped. / *Rhabdiopteryx lunata* Kim., ♂ Type, det. D. E. Kimmins, 1946.

The figures were made from a paratype taken at the same time as the holotype.

**lunulata** Tillyard (*Eusthenia*), 1921a : 230–231, pl. 12, fig. 3. Holotype ♀. Cradle Mountain, [3000 ft], 21.i.[19]17 (R. J. Tillyard) / *Eusthenia lunulata* n. sp., ♀ Holotype, R.J.T.

**luteicollis** Walker (*Perla*), 1852 : 154–155. Holotype ♀. Walker type-label / Venezuela / *Perla luteicollis* [pencil written] / 46. PERLA LUTEICOLLIS [label cut from Walker's Catalogue].

One pair of wings has been removed and mounted between celluloid, and the abdomen has been cleared and placed in a small vial of glycerine. The wings are not entirely dark brown as indicated by Walker but have paler areas. Currently placed in *Macrogynoplax*.

**luteicornis** Stephens (*Nemoura*), 1836 : 142. I have been unable to recognize the type of this species. The specimen bearing the label 'luteicornis' is the example with the dissimilar antennae; as it is aberrant and does not appear to be an artefact, I am not considering it as a 'type'. It is *Nemoura cinerea* (Retzius).]

**luteipes** Kimmins (*Amphinemura*), 1947 : 728–730, figs 5A–D. Holotype ♂. [India], Bengal, Darjeeling distr., xi.1945 (D. E. Kimmins) / *Amphinemura luteipes* Kim., ♂ Type.

Type with wings mounted dry, remainder in canada balsam.

**lycorias** Newman (*Perla*), 1839 : 35. Newman quotes 'In the cabinets of the British Museum and the Rev. F. W. Hope.' The BMNH example has not been traced, unless it is the example described by Newport as *Acroneuria sonans*.]

**magellanica** Klapálek (*Kempnyia*), 1916 : 69. Holotype ♂. Straits of Magellan, Trinidad Channel, 24.ii.[18]79, flying over a mountain stream, H.M.S. 'Alert' / *magellanica* Klapálek. Currently placed as a synonym of *Pictetoperla gayi* (Pictet).

**manevalidi** Kimmins (*Isopteryx*), 1935 : 645–650, figs 1–8. Holotype ♂. France, Mt. Mézenc, 5.vi[19]33 (*H. Maneval*) / Beaten out of grass, on banks of stream, at foot of mountain, c. 1600 m / *Chloroperla manevalidi* (Kim.), ♂ TYPE. Type mounted as two microscope preparations. Currently placed as a synonym of *Chloroperla (Siphonoperla) torrentium* (Pictet).

**mclachlani** Kimmins (*Protonemura?*), 1950a : 200–203, figs 5–8. Holotype ♂. Assam, Khasi Hills, McLachlan Collection / *Protonemura?* *mclachlani* Kim., ♂ Holotype. Mounted as two preparations, wings dry, remainder in canada balsam. Placed provisionally in *Protonemura*, in spite of the apparent absence of prosternal gill-vestiges.

**media** Stephens (*Chloroperla*), 1836 : 138–139. LECTOTYPE ♀. Stephens Coll. / *media* / *Chloroperla media* Steph., ♀ Lectotype, D. E. Kimmins det. 1969. Another example, with a small label 'D' is possibly one of the series from Darenth Wood in June. Currently placed as a synonym of *Isoperla grammatica* (Scopoli).

**media** Walker (*Perla (Isogenus)*), 1852 : 145; Ricker, 1938 : 141. Holotype [? sex]. Walker type-label / Hudson's Bay, [Albany River, St Martins Falls] / 266 or 665, *Perla media* [Barnston MSS] / The abdomen does not belong to this specimen, P. W. Claassen / *Perla media* Walker, D. E. Kimmins det. 1969. The abdomen has been glued on, and according to Claassen, does not belong to this specimen. Currently placed in *Paragnetina*.

**minima** Newport (*Perla*), 1848 : 388; 1851 : 430; Walker, 1851 : 183; Ricker, 1938 : 136. LECTOTYPE ♂. Hudson's Bay [Albany River, St Martins Falls] / 268 or 667, *Perla minima* / *Allocapnia* W. R[icker]. / Type mounted on two microscope slides. Currently placed in *Allocapnia*. For notes on date of original publication, see *Pteronarcys californicus* Newport. (p. 339).

**minor** Klapálek (*Arcynopteryx*), 1912 : 22. Lectotype ♂. (Ricker, 1938 : 144, figs 25–26). Arctic America / Klapálek, minor / *Perlodes (Arcynopteryx) minor* Klap. ♂ 'Type' selected by Ricker, 1935–36 [label, D.E.K.]. Klapálek lists a pair in the BMNH collection, and I consider Ricker's statement (1938 : 144) 'Figured here are the ♂ genitalia, from the type' as equivalent to a selection of the ♂ as Lectotype. The ♂ genitalia were cleared by Kimmins and mounted in canada balsam for the purpose of Ricker's study. Currently placed as a synonym of *Arcynopteryx compacta* McL. The female has been labelled paralectotype.

**minor** Kimmins (*Spaniocerca*), 1938 : 575–576, figs 11, 12A–C. Holotype ♂. New Zealand, Arthur's Pass, 3000 ft, 16.i.1935 (G. V. Hudson) / *Spaniocerca minor* Kimmins, ♂ Type, det. D. E. Kimmins. The figures in the original description are from a paratype.

**minor** Kimmins (*Trinotoperla*), 1951 : 78–79, figs 29a–e. Holotype ♂. [Australia], N[ew] S[outh] W[ales], Bolaro, xii.1935 (R. J. Tillyard) / *Trinotoperla minor* Kim., ♂ TYPE. Mounted as three preparations, wings dry, body in de Faure's medium.

**minuta** Klapálek (*Anacroneuria*), 1922 : 89. Lectotype ♂ (Froehlich des. (i.l.) 1968). Brazil, Santarem / *minuta* Klapálek / *Anacroneuria minuta* Klap., ♂ Lectotype, des. Froehlich 1968. Wings mounted dry, abdomen cleared and in glycerine. 1 ♂ paralectotype, Brazil, Tapayos.

**mishmica** Kimmins (*Protonemura*), 1950a : 203–204, figs 9–11. Holotype ♂. Assam, Mishmi Hills, Chhaglon, 5350 ft, 26.ii.1935 (M. Steele) / *Protonemura mishmica* Kim., ♂ TYPE. Mounted as two microscope preparations, in canada balsam.

**montana** Kimmins (*Capnia*), 1944 : 735–736, fig. 11A. Holotype ♀. Sikkim, Tangu, 11500 ft, 26.iv.1924 (R. W. G. Hingston) Everest Exped. Type in poor condition, cleared and mounted in canada balsam, on two slides.

**montana** Kimmins (*Protonemura*), 1941 : 89–93, figs 13, 14. Holotype ♂. Westmorland, Rydal Beck, 1700 ft, 4.viii.1940 (Noel Hynes) / *Protonemura montana* Kim., ♂ Holotype. Holotype mounted on two microscope slides.

**montivaga** Kimmins (*Capnia*), 1947 : 736–737, fig. 11 B. Holotype ♀. Tibet, Lamna La, 15000 ft, 17.vi.1924 (R. W. G. Hingston) Everest Exped. / *Capnia montivaga* Kim., ♂ Type. 1946. D. E. Kimmins det.

Type in poor condition, abdomen mounted in canada balsam.

**mosellae** McLachlan (*Perla*), 1895 : 111–112. LECTOTYPE ♀. Type [McL. label] / Alf, 1894, Moselle / *P. selysii* Pict. v. *mosellae* McL. / *Perla selysii* Pict. var. *mosellae* McL. ♂ Holotype, D. E. Kimmins det. 1969.

There are 1 ♂ and 10 ♀ paralectotypes. Currently placed as a synonym of *Marthamea selysi* Pictet

**moseleyi** Despax (*Chloroperla*), 1934 : 376–379, pls 5, fig. 16, 10, fig. 29, text-figs 30–32. Holotype ♂ (in 2% formaldehyde solution and on two microscope preparations). [France, Pyrénées-Orientales], Mont-Louis, R. Tet, 22.vi–2.vii.1923 (M. E. Moseley), Chl. *Moseleyi* Despax ♂ Type.

Currently placed in *Isoperla*.

**moseleyi** Despax (*Nemura*), 1934 : 265–267, figs 5–8. Holotype ♂ (in 2% formaldehyde solution). France, B[asses] Pyrénées, Eaux-Bonnes, 4–21.vi.1927 (M. E. Moseley), Nemura *moseleyi* Despax, Type.

The generic name is now spelt *Nemoura*.

**nebulosa** Stephens [*nec Latreille*] (*Nemoura*), 1836 : 140. LECTOTYPE ♀. Stephens Coll. / *nebulosa* / *Nemoura nebulosa* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

Currently placed as a synonym of *Nemoura cinerea* (Retzius).

**nigricoxa** Kimmins (*Dinotoperla*), 1951 : 72, fig. 20d. Holotype ♀. New South Wales, Mt Kosciusko, 10.xii.1934 (R. J. Tillyard) / *Dinotoperla nigricoxa* Kim., ♀ TYPE.

Mounted as three preparations, wings dry, remainder in canada balsam.

**nigrifrons** Kimmins (*Leptoperla*), 1951 : 58–59, figs 10a–d. Holotype ♂. Tasmania (J. W. Evans) / *Leptoperla nigrifrons* Kim., ♂ TYPE.

Mounted as two preparations, wings dry, remainder in canada balsam.

**nimbarella** Moseley (*Protonemoura*), 1930 : 250–252, figs 29–31. Holotype ♂. Switzerland, Klosters, 30.viii.1927 (M. E. Moseley) / *Nemoura nimbarella* Moseley, ♂ Type.

Mounted as preparation in canada balsam. Of the two abdomens in this preparation, that in dorsal view should be considered the TYPE.

**nipponensis** McLachlan (*Perla*), 1875 : 172. LECTOTYPE ♀. Type [McL. label] / Japan (Pryer) / *Perla nipponensis* McL. / *Perla nipponensis* McL., ♀ Lectotype, D. E. Kimmins det. 1969.

Of the two females referred to in the original description (in Wormald's collection), one is in McLachlan's collection and is designated Lectotype.

**nitida** Kimmins (*Neoperla*), 1950 : 184–185, figs 9, 10. Holotype ♂. S. India, Tinnevelly Dt., Naraikadu, 2500–3000 ft, 3–8.x.[19]38 / *Neoperla nitida* Kim., ♂ Type.

Mounted as two preparations, wings dry, remainder cleared and in canada balsam.

**nitida** Stephens (*Nemoura*), 1836 : 143. LECTOTYPE ♀. Stephens coll. / *nitida* / *inconspicua* Pict., *picteti* Mort., det. K. G. Blair / *Nemoura nitida* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

Placed as a synonym of *Nemurella picteti* Klápálek. There are also two paralectotype ♀♀.

**nivata** Kimmins (*Trinotoperla*), 1951 : 78, figs 27b, 28c. Holotype ♀. [Australia], Victoria, Snowy River, 3.i.1933 (R. J. Tillyard) / *Trinotoperla nivata* Kim., ♀ TYPE.

Mounted as three preparations, wings dry, body in canada balsam.

**nubecula** Newman (*Isogenus*), 1833 : 415. Holotype ♀. Isogenus Newman, Nubecula Newman, Ent. Mag. 1. 415, Worcester (*P. Burlingham*).  
The label is much blackened and has been transcribed.

**nubila** Kimmings (*Amphinemura*), 1950 : 191–192, fig. 26. Holotype ♀. S. India, Coonoor, 6000 ft, 22–23.iv.1937 (*G. M. Henry*).  
Type mounted as two preparations, body in canada balsam, wings dry. There is also a ♀ paratype, pinned.

**olivacea** Walker (*Perla (Isogenus)*), 1852 : 144–145; Ricker, 1938 : 143, figs 21–23. Holotype ♂. Walker Type label / Hudson's Bay [Albany River, St. Martin's Falls] / 267 or 666, *Perla olivacea* [Barnston MSS] / Isogenus olivacea Walk. Type [DEK writing].  
The abdomen was removed and cleared, for study by W. E. Ricker, and has been mounted in canada balsam.

**opposita** Walker (*Perla (Chloroperla)*), 1852 : 171; Kimmings, 1951 : 63–64, fig. 15 (lectotype designation.) Lectotype ♂. Walker Type label / V[an] D[iemens] L[and] / *Dinotoperla opposita* Walk., Type, det. D. E. Kimmings, i.1940.  
The abdomen is mounted in de Faure's medium, attached to pin, and one pair of wings mounted on a microscope slide. I consider my statement (1951: 'I have selected as type the female from Mr Smith's collection, labelled V. D. L., 51–153' as equivalent to a designation of the lectotype. Currently placed in the genus *Dinotoperla*.

**oxylepis** Despax (ssp. of *Chloroperla grammatica*), 1936 : 357, pl. 3, fig. 12, pl. 7, fig. 23, text-figs 10–12. Holotype ♂ (in 2% formaldehyde solution and on two preparations). [France], Le Lioran, 9–19.vi.[19]24 (*M. E. Mosely*), Chl. gr. oxylepis Despax, Type.  
Currently placed in the genus *Isoperla*. Despax quotes Gerardemer and Le Lioran in the type-series, but has labelled the Le Lioran example as Type.

[**pallicornis** Stephens (*Nemoura*), 1836 : 143. Type not recognized. The specimen bearing this label agrees in wing expanse with the description but the antennae, far from being pale, are dark reddish brown. The specimen bears a label 'H' [?Hertford] but I am inclined to the view that the label 'pallicornis' has been wrongly placed upon it, and do not consider it to be a type. It is a ♀ *Nemurella picteti* Klapálek. Morton doubtfully synonymized this species with *cambrica* or *inconspicua* [*picteti*]. The labelled specimen is certainly the latter.]

**pallida** Stephens (*Chloroperla*), 1836 : 139–140. LECTOTYPE ♀. Stephens coll. / pallida / *Chloroperla pallida* Steph., ♀ Lectotype, D. E. Kimmings det.

Currently placed as a synonym of *Chloroperla torrentium* (Pictet).

**pallida** Stephens (*Nemoura*), 1836 : 141. LECTOTYPE ♀. Stephens Coll. / pallida / *Nemoura pallida* Steph., ♀ Lectotype, D. E. Kimmings det. 1969.  
Currently placed as a synonym of *Nemoura cinerea* (Retzius).

**pallipes** Stephens (*Nemoura*), 1826 : 142. Holotype ♂. Stephens Coll. / pallipes / standfussi (not *inconspicua* Pict.), det. K. G. Blair, / *Amphinemura standfussi* Ris ♂, D. E. Kimmings det.

This dried example was determined as *A. standfussi* Ris by Blair, and while I had little doubt as to the accuracy of his identification, I have cleared the abdomen and can confirm his identification. Illies (1966, *Tierreich* 82 : 47) treats *Nemoura pallipes* Stephens as a *nomen oblitum*, thus avoiding the suppression of the well-known name *Amphinemura standfussi* Ris.

**pedestris** Kimmings (*Capnia*), 1947 : 731–732, figs 7A–C. Holotype ♂. Tibet, Everest base camp, Rongbuk Glacier, 16500 ft, v.1922 (*T. G. Longstaff*) / *Capnia pedestris* Kim., ♂ Type.

The type has been cleared and mounted in canada balsam. Currently placed in the genus *Allocapnia*.

**perfecta** Walker (*Nemoura*), 1852 : 191; Ricker, 1938 : 133. Holotype ♂ (mounted on three microscope slides). Walker type-label / R [on green label] / Nova Scotia (Redman) / 51. NEMOURA PERFECTA [label cut from Walker catalogue] / *Nemoura WR.* (punctipennis Claassen syn) [W. E. Ricker's writing, 1935–36].

Currently placed in *Nemoura* (*Paranemoura*).

**perpicta** Klapálek (*Togoperla*), 1921 : 63, 64. LECTOTYPE ♂. Hong Kong, Feb.-May (J. J. Walker) / infuscata Klapálek / Togoperla perpicta Klap., ♂ Lectotype, D. E. Kimmins det. 1969.

There are 4 ♂, 1 ? paralectotypes in BMNH. The explanation of the absence of correct Klapálek det. labels appears to be due to a change of mind between labelling the specimens and the posthumous publication of the description.

**perspicillata** Klapálek (*Gibosia*), 1916 : 61. LECTOTYPE ♀. N[orth] China / triangle of black paper / perspicillata Klapálek / Gibosia perspicillata Klap., ♀ Lectotype, D. E. Kimmins det. 1969.

There are also 2 ♀ paralectotypes labelled Hong Kong.

**postica** Walker (*Perla (Isogenus)*), 1852 : 144; Ricker, 1938 : 143-144. Holotype ♀. Walker Type label / [Mackenzie River], Arctic Amer[ica] / Perla (Isogenus) postica Walk., Holotype ♀, det. D. E. Kimmins, 1969.

The holotype lacks part of its abdomen, but the presence of eggs in the remainder of the abdomen leaves no doubt as to its sex. Currently placed as a synonym of *Diura bicaudata* (L.).

[**praecox** Morton (*Nemoura*), 1894 : 566-567, pl. 13, *Nemoura praecox*, figs 1-2.

The BMNH has two syntypes (♂, ♀) given to McLachlan, labelled Cleghorn, 13.iii / PRAECOX / Morton's type, 1894 [McL. writing] / *Nemoura praecox* Mort., syntype, D. E. Kimmins det. 1969.

The lectotype should be chosen from Morton's collection, Royal Scottish Museum, Edinburgh.]

**prasina** Newman (*Chloroperla*), 1845 : 853. Holotype ♀. N[ew] Zea[land] / Saunders [collection] / Chloroperla prasina, New Zealand.

One pair of wings mounted dry, abdomen in canada balsam. Currently placed in *Sienoperla*.

**proteus** Newman (*Pteronarcys*), 1838 : 177. Lectotype ♂ (Smith, 1917 : 453). E. Double-day, Trenton Falls, New York, *Pteronarcys Proteus* Newm. / *Pteronarcys proteus* Newm. ♂.

This ♂ had at some time acquired an incorrect register number applying to a Trichopteron; this has been corrected. The ♀ type of *proteus* has been shown by Smith (1917) to be incorrectly associated with the ♂ and is in fact the ♀ of *Pt. comstocki* Smith.

**pseudocingulata** Mendl (*Leuctra*), 1968 : 311-314, figs 5-7. Holotype ♂. France, Vosges, Retournemer, 7-31.vii.1930 (M. E. Mosely) / *Leuctra carinthiaca* Kempny, det. M. E. Mosely / *Leuctra pseudocingulata* Mendl, ♂ Holotype, D. E. Kimmins det. 1968.

Holotype mounted as a preparation in canada balsam. The holotype and paratypes were labelled by Kimmins at Herr Mendl's request.

**purpurescens** Tillyard (*Eusthenia*), 1921 : 230, pl. 13, fig. 6. Holotype ♀. [Tasmania], Hobart, 6.xii.[19]13 (G. H. Hardy) / *Eusthenia purpurescens* sp. n. ♀ Holotype, R.J.T. ♂ Allotype also in BMNH.

**pusilla** Stephens (*Nemoura*), 1836 : 142. LECTOTYPE ♂. Stephens Coll. / *pusilla* / *Nemoura pusilla* Steph. ♂ Lectotype, D. E. Kimmins det. 1969.

Currently placed as synonym of *Nemoura cinerea* (Retzius).

**pyrenaica** Mosely (*Protonemoura*), 1930 : 250, figs 29-31. Holotype ♂. France, Basses Pyrénées, Eaux Chaudes, 10.vii.1929 (M. E. Mosely) / *Protonemoura pyrenaica* Mosely ♂ Type.

Type mounted as preparation in canada balsam.

**quadridentata** Kimmins (*Protonemura*), 1950a : 205-206, fig. 12. Holotype ♀. Khasis, Nat[ive] Coll[ector] / *Protonemura quadridentata* Kim., ♀ Type, D. E. Kimmins det. 1948. ♂ Type pinned, with abdomen mounted in canada balsam.

**regalis** Newman (*Pteronarcys*), 1838 : 176. Holotype ♀. [The label is much blackened, but by oblique lighting the following data can be read] Pteronarcys Newman, Regalis Newman, Ent. Mag. V. 176, Canada, E. Newman.

The abdomen is now missing.

**renata** Kimmins (*Amphinemura*), 1950a : 206–208, figs 13–16. Holotype ♂. Assam, Mishmi Hills, Minutang, 3900 ft, 17.ii.1935 (M. Steele) / Amphinemura renata Kim., ♂ Holotype.

Holotype mounted as two preparations, wings dry, remainder in Canada balsam.

**reticulata** Kimmins (*Leptoperla*), 1951 : 57–58, figs 9a–b. Holotype ♀. [Australia], New South Wales, Mt Kosciusko, Spencers Creek, xii.1932 (R. J. Tillyard) / Leptoperla reticulata Kim., ♀ TYPE.

Mounted as three preparations, wings dry, remainder in Canada balsam.

**reticulata** (Klapálek MSS) Tillyard (*Eustheniopsis*), 1921a : 233. Holotype ♀. Tasmania / reticulata Klapálek / Eustheniopsis reticulata Till., ♀ Holotype, D. E. Kimmins det. 1969.

[**rufescens** Stephens (*Chloroperla*), 1836 : 139. Type not recognizable from description.]

**ruficosta** Tillyard (*Tasmanoperla*), 1924 : 193. Holotype ♀. N[ew] S[outh] W[ales], [Mount] Kosciusko, [5500 ft], 24.xi.1921 (R. J. Tillyard) / Tasmanoperla ruficosta Till., Holotype ♀, R.J.T.

**rugosa** Kimmins (*Leptoperla*), 1951 : 56–57, figs 8a–e. Holotype ♂. Australia, F[eederal] C[apital] T[erritory], Lee's Springs, xi.[19]32 (R. J. Tillyard) / Leptoperla rugosa Kim., ♂ TYPE.

Mounted as one preparation, in Canada balsam.

**scutata** Barnard (*Aphanicercella*), 1934 : 540–541, figs 16a–f. Holotype ♂. [South Africa], Wellington Mts, [Witte River], ix.1933 (H. G. W[ood]) / Aphanicercella scutata Brnd, Holotype ♂, ♀ [Barnard's writing].

Holotype ♂, paratype ♀ in 2% formaldehyde solution.

**scutigera** Kimmins (*Protonemura*), 1950a : 199–200, fig. 4. Holotype ♀. Assam, Mishmi Hills, Delai Valley, Chanliang, Alt. 4840 ft, 25.xi.1936 (M. Steele) / Protonemura scutigera Kim., ♀ TYPE.

Mounted as two preparations in Canada balsam.

**serricauda** Kimmins (*Dinotoperla*), 1951 : 62–63, figs 14 a–e. Holotype ♂. Tasmania, R. Ouse, 4.ii.1933 (R. J. Tillyard) / Dinotoperla serricauda Kim., ♂ Type.

Mounted as three preparations, wings in de Faure's medium, remainder in Canada balsam.

**signata** Walker (*Perla*), 1852 : 157. Lectotype ♀. Walker type label / Venezuela / 54. PERLA SIGNATA [label cut from Walker catalogue] / Anacroneuria signata Walker, Lectotype, det. Froehlich, 1968.

Currently placed in *Anacroneuria*.

**sonans** Newport (Barnston MSS) (*Perla*), 1851 : 447–449. Holotype ♀. 265 or 664, Perla sonnans / abnormis, Klapálek / Perla sonans Newport.

*Perla sonans* (Barnston MSS) was published in synonymy with *Perla abnormis* Newman by Newport and would not normally be available, but Ricker (1938 : 140) treats it as an available name and thus validates it (Art. 11, d, Intern. Rules, 2nd edition). He gives St Martin's Falls, Albany River, Ontario as the type-locality, but there is no such indication on the specimen. Barnston's label gives the specific name as 'sonnans', but the published name is 'sonans'.

Currently placed in *Acroneuria*, probably a synonym of *abnormis* Newman.

**spectabilis** Westwood (in Griffiths et al.) (*Eusthenia*), 1832 : 348; Newman (1839 : 33). LECTOTYPE ♀. 41.9.25.2 [New Holland, V. D. L., In exchange with Westwood] / Eusthenia spectabilis Westw., in Griff. An. K., N. Holl., (V.D.L.). / Eusthenia spectabilis Westwood, ♀ Lectotype, D. E. Kimmins det. 1969.

There is one paralectotype ♀.

The selection of a type-specimen for this species has been something of a problem, which has been made more difficult by the fact that Westwood himself did not publish a description of the species, Griffith's account being based upon notes supplied by Westwood.

The first description (1832 : 348) is very brief 'The body is dark brown, the upper wings pale, with a brown spot in each cell; the anterior margin purplish brown, and with a whitish fasciae rather beyond the centre: the hinder wings red, with a very broad bluish-black margin.'

The second description, by Newman (1839 : 33) is more detailed and agrees well with the two examples in BMNH determined by Westwood (and probably seen by Newman before they reached the BMNH). One was received from Westwood in exchange in 1841 and the other from the Entomological Club in 1844. The chief differences in the two descriptions are that Griffiths (1832) does not mention the conspicuous reddish streak along the radius in the fore wing, and the specimens do not show a pale fore wing with a brown spot in each cell. They are in fact brownish with a purple tinge, the cross-veins finely bordered with white. It is possible that Griffiths meant that the cells were almost entirely filled with brownish.

Tillyard based his interpretation of the species on these two examples, which were long ago labelled as syntypes, and I have therefore made the above lectotype selection, which is in conformity with current usage.

**spio** Newman (*Chloroperla*), 1839 : 86. Holotype ♂. Sierra Leone / Chloroperla Spio Newman, Mag. Nat. Hist. n.s. III p. 86 [with on reverse], presented by the Rev<sup>d</sup>. D. F. Morgan.

Currently placed in the genus *Neoperla*.

**subarmata** Despax (ssp. of *Chloroperla grammatica*), 1924 : 354–357, pl. 8, fig. 22, text-figs 7–9. Holotype ♂ (in 2% formaldehyde solution and as microscope preparation). Angl[eterre], Capel Curig [vi.[19]19] (M. E. Mosely).

The locality 'Capel Curig' is in fact in the Welsh county of Caernarvonshire. Currently placed in the genus *Isoperla*.

**suffusa** Walker (*Perla*), 1852 : 154. LECTOTYPE ♀. Walker type label / Nepal, with on reverse 'Hardwicke Bequest' / Perla suffusa Walker, ♀ Lectotype, D. E. Kimmens det. 1969.

The type-series consists of two ♀ syntypes, both from Nepal. Walker's description agrees fairly well, although one venational character agrees only in one out of four fore wings. This is the number of cross-veins in the terminal areolet (space between costa and  $R_1$  beyond the termination of  $Sc$ ), which is said to be seven. The numbers are actually 4, 5, 5 and 7. I have selected as Lectotype the example which has seven cross-veins in the terminal areolet of one fore wing. The second example becomes a paralectotype.

Currently placed as the type-species of *Brahmana* Klapálek, 1916.

**sulcicollis** Stephens (*Nemoura*), 1836 : 143. Syntype [?sex]. Stephens Coll. / Nemoura sulcicollis Steph., D. E. Kimmens det. 1969.

In the Stephens Collection there is one example (now lacking abdomen) which agrees reasonably well with the original description, and although it does not carry a specific label from the Stephens Collection, I am prepared to accept it as at least one of the syntypes. Stephens' collection of Nemouridae was studied by Morton (1894 : 571) and *sulcicollis* was placed by him as a synonym of *Nemoura cinerea* Olivier, 1811. The latter is a homonym of *Nemoura cinerea* (Retzius, 1784) and Brinck (1949 : 37) has used the name *Nemoura sulcicollis* Stephens, 1836 as the first available synonym for *Nemoura cinerea* Olivier, 1811. Currently placed in the genus *Amphinemura*.

**tasmanica** Kimmens (*Leptoperla*), 1951 : 51–53, figs 5a–e. Holotype ♂. Tasmania, Gouldt County, 10.ii[19]33 (R. J. Tillyard) / Leptoperla tasmanica Kim., ♂ TYPE.

Holotype mounted as three preparations, two of wings (in de Faure's medium), remainder in canada balsam.

**tasmanica** Tillyard (*Spaniocerca*), 1924 : 195, fig. 3. Holotype ♀. Tas[mania], Mount Wellington, 31.i.1917 (R. J. Tillyard) / Spaniocerca tasmanica Till., Holotype ♀, R.J.T.

Holotype (seriously damaged by pests in Tillyard collection) is now represented by two anterior and one posterior wings.

**tenebrosa** Klapálek (*Kempnyia*), 1916 : 69–70. LECTOTYPE ♀. Theresopolis / 22.ix. [18]87 / triangle of black paper / tenebrosa Klapálek / Kempnyia tenebrosa Klap., ♀ Lectotype, D. E. Kimmins det. 1969.

One paralectotype (without abdomen). Currently placed as synonym of *Kempnyia klugi* (Pictet).

**terminalis** Walker (*Perla*), 1852 : 155–156. LECTOTYPE ♀. Walker type label / East Indies / India / 49. PERLA TERMINALIS. / Perla terminalis Walker, ♀ Lectotype, D. E. Kimmins det. 1969.

The second example is in less good condition and has been marked paralectotype ♀. Currently placed in *Marthamea* and doubtfully synonymized with *M. vitripennis* by Klapálek, 1923 : 98.

**tibetana** Kimmins (*Capnia*), 1947 : 734–735, figs 10A–D. Holotype ♂. Tibet, Gaotsa, 12300 ft, 21.iii.1933 (Raymond Greene), Mt. Everest Exped. / Capnia tibetana Kim., ♂ Type.

Type mounted on two microscope slides, in canada balsam.

**tillyardi** Kimmins (*Spaniocerca*), 1951 : 87–88, figs 37a–e. Holotype ♂. [Australia], F[ederal] C[apital] T[erritory], Lee's Springs, xi.1932 (R. J. Tillyard) / Spaniocerca tillyardi Kim., ♂ TYPE.

Mounted as three preparations, wings dry, head, mouth parts and abdomen, thorax and legs in canada balsam.

**tinctipennis** McLachlan (*Perla*), 1875 : 71. Holotype ♀. Type [McL. label] / Japan, Pryer / Perla tinctipennis McL.

Currently placed in *Paragnetina*.

**tragula** Kimmins (*Amphinemura*), 1950 : 189–191, figs 23–25. Holotype ♂. Turkestan / 1 / Amphinemura tragula Kim., ♂ TYPE.

Type cleared and mounted in canada balsam.

**transmarina** Newman (*Chloroperla*), 1838 : 499–500. Lectotype ♀ (Ricker, 1938 : 146, figs 32, 33). Ent. Club / Transmarina Newman, Ent. Mag. V.499, N. America, R. Foster / Chloroperla transmarina Newman, ♀ Lectotype, W. E. Ricker det. 1935–36.

The data label is now black and the data discernable only with difficulty. Ricker, in effect, selected this example by his statement 'The ♀ type, in the British Museum'. The other examples (implied in Newman's description) have probably been transferred to other species. Currently placed in the genus *Isoperla*.

**transversa** Klapálek (*Perlodes*), 1912 : 40. Holotype ♀. Rheinwald (W. Bennett) / Ent-[omological] Club / transversa, Klapálek. /

Synonym of *Perlodes intricata* (Pictet).

**tricolor** Klapálek (*Togoperla*), 1921 : 65. Holotype ♀. Kiu-Kiang / tricolor Klapálek / Togoperla tricolor Klapálek, ♀ Holotype, D. E. Kimmins det. 1969.

**trijuncta** Walker (*Perla*), 1852 : 153; Ricker, 1938 : 140. Holotype ♀. Walker type label / Georgia / 43. PERLA TRIJUNCTA [label cut from Walker Catalogue].

Currently placed as a synonym of *Acroneuria arenosa* Pictet.

**turkestanica** Kimmins (*Capnia*), 1950 : 187–189, figs 14–18. Holotype ♂. 7 / 517 / Turkestan / Capnia turkestanica Kim., D. E. Kimmins det. 1948.

Wings mounted dry, abdomen in canada balsam.

**uncata** Kimmins (*Filchneria*), 1947 : 737–739, figs 12, 13A–E. Holotype ♂. Tibet, Yatung, 10000 ft, 3.iv.1924 (R. W. G. Hingston) Everest Exped.

Type ♂ cleared and mounted in canada balsam, on two slides.

**uniformis** Kimmins (*Dinotoperla*), 1951 : 68–69, figs 19a–g. Holotype ♂. Australia, N[ew] S[outh] W[ales], Rule's Point, 4450 ft, 30.xii.[19]34 [R. J. Tillyard] / *Dinotoperla uniformis* Kim., ♂ TYPE.

Mounted as three preparations, wings in de Faure's medium, remainder in canada balsam. **varia** Kimmins (*Leptoperla*), 1951 : 54–56, figs 7a–d. Holotype ♂. Tasmania, L[ake] St Clair, 6.ii.1933 (R. J. Tillyard) / *Leptoperla varia* Kim., ♂ TYPE.

Mounted as two preparations, wings in de Faure's medium, remainder in canada balsam. **variegata** Stephens (*Nemoura*), 1836 : 144. Holotype ♀. Stephens Coll. / *variegatus* / *Nemoura variegata* Steph., ♀ Holotype, D. E. Kimmins det. 1969. / *Brachyptera risi* Morton, ♀, D. E. Kimmins det. 1969.

*Nemoura variegata* Stephens is a homonym of *Nemoura variegata* (Olivier) and takes the name of the first available synonym, *Brachyptera risi* Morton.

**venosa** Kimmins (*Neoperla*), 1950 : 183–184, figs 7–8. Holotype ♂. S. India, Kodaikanal, 7000 ft, 31.iii.[19]36, BM-CM Exped. to S. India, 1936 / *Neoperla venosa* Kim., det. D. E. Kimmins.

Wings mounted dry, ♂ genitalia in canada balsam.

[**venosa** Stephens (*Chloroperla*), 1836 : 139. Type not recognizable from description.]

**vernalis** Newport (*Capnia*), 1848 : 388; 1851 : 451; Walker, 1851 : 176; Ricker, 1938 : 135–136, figs 10–12. Lectotype ♂ (Ricker, 1938). Hudson's Bay, [Albany River, St Martin's Falls] / Originally mounted with female / *Capnia vernalis* Newp., ♂ Lectotype. W. E. Ricker, 1938.

The lectotype has wings mounted dry and abdomen in canada balsam.

**xanthenes** Newman (*Perla*), 1838 : 478. Lectotype ♀ (Needham & Claassen, 1925 : 194). Georgia / *Perla xanthenes* Newman ♀ Type, det. D. E. Kimmins.

Currently placed in *Acroneuria*. The ♂ of *xanthenes* Newman is placed as a synonym of *Perla kansensis* Banks.

## MEGALOPTERA

**affinis** Stephens (*Raphidia*), 1836 : 131. LECTOTYPE ♀. Stephens Coll. / *affinis* / *Raphidia affinis* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

Currently placed as a synonym of *Raphidia (Atlantoraphidia) maculicollis* Stephens. A second labelled example appears to be conspecific and has been labelled ♀ paralectotype.

**albibennis** Walker (*Hermes*), 1853 : 207–208; Kimmins, 1949 : 766–768, text-fig. 1. LECTOTYPE ♀. Walker type label / Nepal, [with on reverse] Hardwicke Bequest / *H. albipennis*, Nepaul / *Hermes albipennis* Walker, ♀ Lectotype, D. E. Kimmins det. 1969.

This is the example referred to as '♀ holotype' in Kimmins, 1949 : 767. Currently placed in *Protohermes*.

**anticus** Walker (*Hermes*), 1853 : 205. Holotype ♀. Walker type label / China / *H. anticus*, China / *Hermes anticus* Walker, Holotype, D. E. Kimmins det. 1969.

Weele (1909 : 36) states that the type is a mature ♀; the abdomen is now missing. Currently placed as a synonym of *Neochauliodes sinensis* (Walker).

**assamensis** Kimmins (*Protohermes*), 1948 : 773–775, text-figs 11–13. Holotype ♂. Assam *Protohermes assamensis* Kim., ♂ Type, det D. E. Kimmins.

Abdomen cleared and mounted in canada balsam.

**assimilis** Albarda (*Raphidia*), 1891 : 144–146, pl. 8, fig. 23. Holotype ♀. Type [McL. label] / 47 / 61 / Vancouver I[sland] (Mathew) / *assimilis* Alb. / *H. & U. Aspöck* vid. 1968.

Abdomen cleared and preserved in glycerine. Currently placed in the genus *Agulla*.

**auritus** Kimmins (*Platyneuromus*), 1928 : 369–370, figs 5–7. Holotype ♂. Honduras / *Platyneuromus auritus* Kimmins, ♂ Type, det. D. E. Kimmins / *Doeringia auritus* Kimmins, det. D. E. Kimmins, 1932.

**australica** Kimmins (*Archichauliodes*), 1954 : 424–425, fig. 6. Holotype ♂. N[ew] S[outh] Wales, Upper Murrumbidgee R., Rule's Point, 4500 ft, 20.xii.1934 (R. J. Tillyard) / Abdomen in slide cabinet / Archichauliodes australica ♂ Kim., D. E. Kimmins det.

It may be pointed out that in the published data of the holotype, the sex is incorrectly given as ♀.

**australiensis** Tillyard (*Stenosialis*), 1919 : 824. Holotype ♀. Q[ueensland], Mt Tambourine, 17.xii.[19]16 (W. H. Davis) / Stenosialis tambourinensis Till., TYPE, R.J.T. / Stenosialis australiensis Till., ♂ TYPE, det. D. E. Kimmins.

The type is very much compressed laterally. Tillyard evidently changed his mind about the specific name, but omitted to replace the determination label. Currently placed in *Austrosialis*.

**batesi** McLachlan (*Cordyalis*), 1868 : 232–233, pl. 8, fig. 1. Holotype ♀. Ega (Bates) / Corydalis batesii McL. (Type).

Generic name now spelt *Corydalus*.

**bellulus** Banks (*Protohermes*), 1931 : 412–413, fig. 18. LECTOTYPE ♂. B[ritish] N[orth] Borneo, Mt Kinabalu, Lumu Lumu, 5500 ft, 8.iv.1929 (H. M. Pendlebury) / Ex F.M.S. Museums / Protohermes bellulus Bks, type / Protohermes bellulus Banks, ♂ Lectotype, D. E. Kimmins det. 1969.

**bicolor** Albarda (*Raphidia*), 1891 : 152–154, pl. 9, fig. 22. LECTOTYPE ♂. Type [McL. label] / Colorado / 42 / bicolor Alb. / Agulla bicolor Alb. ♂ Type, det. D. E. Kimmins / Raphidia bicolor Alb., ♂ Lectotype, D. E. Kimmins det. 1969.

Apex of abdomen cleared and mounted in canada balsam. There are 3 ♂ and 6 ♀ paralectotypes in BMNH. Currently placed in *Agulla*.

**biconicus** Kimmins (*Protochauliodes*), 1954 : 443–444, fig. 22. Holotype ♂. [Australia], N[ew] S[outh] Wales, Nowra, 8.x.1928 (F. A. Rodway) / Abdomen in slide cabinet / Protochauliodes biconicus Kim., ♂, D. E. Kimmins det. 1953.

**bowringi** McLachlan (*Chauliodes*), 1867 : 260 (= *Hermes sinensis* Walker, 1852 : 203, nec 1852 : 199). Holotype ♀. Hongkong / H. sinensis, China / Chauliodes bowringi McL., Type, D. E. Kimmins det.

Currently placed in *Neochauliodes*.

**burmana** Aspöck (*Inocellia*), 1968 : 63; 1968a : 188, fig. 3. Holotype ♂. N. E. Burma, Hpungan, 17.iii.1934 (R. Malaise) / Inocellia burmana Aspöck & Aspöck, 1968, Holotypus. Abdomen cleared and preserved in glycerine. The first reference is a *nomen nudum*.

**californicus** Walker (*Chauliodes*), 1853 : 199. Holotype ♀. Walker type label / California [From M. Hartweg's collection] / C. californicus, California / Abdomen in slide cabinet / Chauliodes californicus Walker, ♂ Holotype, D. E. Kimmins det. 1969.

Currently placed in the genus *Neohermes*.

**chilensis** Kimmins (*Archichauliodes*), 1954 : 425–427, figs 7, 8. Holotype ♂. Chili (Calvert) / Abdomen in slide cabinet / Archichauliodes chilensis Kim., ♂, D. E. Kimmins det. 1953.

**chilensis** McLachlan (*Sialis*), 1870 : 145–146. Holotype ♂. Type [McL. label] / Chili / Sialis chilensis McL.

Currently placed in the genus *Protosialis*. Weele (1910 : 77), from a photograph of McLachlan's type, suggests it is a female, because the antennae did not appear to be hairy. They are in fact pilose and the type is definitely a male.

**continentalis** Weele (*Parachauliodes*), 1909 : 259; 1910 : 60, fig. 47, pl. 4, fig. 30; Kimmins, 1954 : 432, text-fig. 12. LECTOTYPE ♂. [Korea], Ssu-shima, 27.v.1891, H.t. / Metachauliodes continentalis Weele, type / Parachauliodes continentalis Weele, ♂ Lectotype, D. E. Kimmins det. 1969.

The generic name *Metachauliodes* is a *nomen nudum* and was evidently replaced at the last minute by Weele with *Parachauliodes*, the same name occurring twice (Weele, 1910 : 61) in error for *Parachauliodes*. There is one ♀ paralectotype in BMNH.

**corripiens** Walker (**Hermes**), 1860 : 180. LECTOTYPE ♀. [No locality label] / Walker type label / Saunders [Coll.] / corripiens / Hermes corripiens Walker, ♀ Lectotype, D. E. Kimmins det. 1969.

Walker's measurements suggest that he had more than one example; and there is a second example from Brazil, also from the Saunders collection, which may be one of the type-series. It lacks the anterior spots on pronotum, which Walker says may be obsolete. Both specimens are a little larger than the dimensions given by Walker.

**costalis** Walker (**Hermes**), 1853 : 207; Kimmins, 1949 : 775-778, figs 14-18. LECTOTYPE ♂. Walker type label / North China / H. costalis, N. China / Hermes costalis Walker, ♂ Lectotype, D. E. Kimmins det. 1969.

Lectotype with abdomen cleared and mounted in canada balsam. The second example has been labelled paralectotype ♀. Currently placed in the genus *Protohermes*.

**crassicornis** McLachlan (**Corydalis**), 1867 : 233-235, pl. 8, fig. 2. Holotype ♂. Texas / Corydalis crassicornis McL. (Type).

Generic name now spelt *Corydalis*.

**deceptor** Kimmins (**Archichauiodes**), 1954 : 423-424, fig. 5. Holotype ♂. Queensland, Toowoomba, 2000 ft, 10.xii, 1884 / Abdomen in slide cabinet Chauliodes guttifer McL. [McL.det.] / Archichauiodes deceptor Kim., ♂ D. E. Kimmins det. 1953.

**decimmaculatus** Walker (**Hermes**), 1860 : 180; Kimmins, 1949 : 768-770, figs 2-4. Holotype ♂. [No locality data] / Saunders [coll.] / 10-maculatus W. / Hermes decimmaculatus Walker, ♂ Holotype, D. E. Kimmins det. 1969.

Abdomen mounted in canada balsam.

**disjunctus** Walker (**Chauliodes**), 1866 : 334. Holotype ♀. Walker type label / Brit[ish] Columb[ia] / Brit[ish] Columb[ia], Chalukweyuh Lake, ix.1859 / Chauliodes disjuncta. Currently placed in the genus *Dysmicohermes*.

**diversus** Walker (**Hermes**), 1853 : 205; Kimmins, 1938a : 354-358, pl. 13A, text-figs 1, 2, 5, 6, 9, 10 [designation of type]. Lectotype ♂ (Kimmens, 1938). Walker type label / N[ew] Zeal[an]d / Hermes diversus Walker ♂, selected as type by D. E. Kimmins, Feb. 1938.

The type has the abdomen cleared and mounted in canada balsam. Currently placed in the genus *Archichauiodes*.

**dubitatus** Walker (**Hermes**), 1854 : 204; Kimmins, 1938a : 354-358, pl. 13, text-figs 3, 4, 7, 8. Holotype ♀. Walker type label / 26 / H. dubitatus [no locality] / Abdomen in slide cabinet / Protochauiodes dubitatus Walker, ♀ Type, det. D. E. Kimmins.

Locality possibly South American. Currently placed in the genus *Protochauiodes*.

**esbenpeterseni** Kimmins (**Leptochauiodes**), 1930 : 663-665, 2 figs. Holotype ♂. C[ape] C[olony], Hottentots Holl[and] Mts, 4000 ft, Caledon, 1916 ([*K. H. Barnard*]) / Abdomen in slide cabinet / Leptochauiodes esbenpeterseni Kimmins ♂, det. D. E. Kimmins, 1930 / Taeniochauiodes ochraceopennis Esb.-Pet. ♂, det. D. E. Kimmins.

**fasciatus** Walker (**Chauliodes**), 1853 : 201. LECTOTYPE. Walker type label / 'N[ew] Holl[and]' / C. fasciatus, Australia / Chauliodes fasciatus Walker, ♂ Lectotype, D. E. Kimmins det. 1969.

Of the two original examples, the above mentioned specimen is the only one bearing locality and determination labels. There is a smaller example, without any data whatever, but I feel that it would be unwise to mark it as a paralectotype.

**fenestralis** McLachlan (**Neuromus**), 1869 : 42-43. LECTOTYPE ♂. Dhargeeling / Neuromus fenestralis McL. / Neuromus fenestralis McL., ♂ Lectotype, D. E. Kimmins det. 1969.

The second ♂ syntype has been labelled paralectotype. Currently placed in the genus *Neoneuromus*.

**ferrugineus** Walker (**Sialis**), 1853 : 195. Holotype ♂. Walker type label / Georgia [From Mr Abbot's collection] / S. ferrugineus N. Amer[ica] / Sialis ferrugineus Walk., ♂ Holotype,

D. E. Kimmins det. 1969.

Currently placed as a synonym of *Sialis americana* (Rambur).

**fletcheri** Kimmins (*Neochauliodes*), 1954 : 434, fig. 13. Holotype ♂. India, Assam, Shillong, 5000 ft, 26.vi.-10.vii.1928 (*T. Bainbridge Fletcher*) / Abdomen in slide cabinet / *Neochauliodes fletcheri* Kim., ♂, D. E. Kimmins det. 1953.

**forcipatus** Kimmins (*Ctenochauliodes*), 1954 : 429-430, fig. 11. Holotype ♂. China, [Szechwan?], Kwanshien, vii.1930 (*G. M. Franck*) / Abdomen in slide cabinet / *Ctenochauliodes forcipatus* Kim., ♂, D. E. Kimmins det. 1953.

**fraternus** McLachlan (*Chauliodes*), 1869 : 37. Holotype ♀. N. China / *Chauliodes fraternus* McL.

Currently placed as ssp. of *Neochauliodes sinensis* (Walker).

**fulvostigmata** Aspöck (*Inocellia*), 1968 : 63; 1968a : 184-187, figs 1-2. Holotype ♂. 11.viii. / Kashmir, Gulmarg, 11.viii.[19]31 (*T. B. Fletcher*) / *Inocellia fulvostigmata* Aspöck et Aspöck, 1968, Holotypus.

The first reference is a *nomen nudum*.

**fuscinata** Aspöck (*Inocellia*), 1964 : 62; 1965 : 352-353, fig. 22. Holotype ♂. Turkey, Amasya, 9.vi.1959 (*K. M. Guichard*) / *Raphidia fuscinata* H. et U. Aspöck, Holotypus ♂.

Currently placed in the subgenus *Turcoraphidia*. Abdomen of holotype cleared and preserved in glycerine.

**guttiferus** Walker (*Hermes*), 1853 : 204; Kimmins, 1954 : 419-421, figs 2, 3. Holotype [?sex]. Walker type label / [locality unknown] / *guttifera* / *Hermes guttifera* Walker, holotype, D. E. Kimmins det. 1969.

Currently placed in the genus *Archichauliodes*.

**hageni** Albarda (*Inocellia*), 1891 : 171-172, pl. 11, fig. 33. Holotype ♀. Type [McL. label] / 57 / [California], S[an] Francisco (*Edwards*) / Hageni, Alb.

**hecate** McLachlan (*Corydalis*), 1866 : 1-2, pl. 20. LECTOTYPE ♂. Brazil / *Corydalis hecate* McL., Type / *Corydalis cephalotes* Rbr [McL. writing] / *Corydalis hecate* McL., ♂ Lectotype, D. E. Kimmins det. 1969.

Currently placed as a synonym of *C. cephalotes* Rambur.

**ignicollis** Tillyard (*Austrosialis*), 1919 : 823. Holotype ♂. [Tasmania], Maria Isl[and], 29.xii.[19]13 / *Austrosialis ignicollis* Till. Type, R.J.T.

**inamabilis** McLachlan (*Corydalis*), 1867 : 235-236, pl. 8, fig. 3. Holotype ♂. Texas / *Corydalis inamabilis* McL. (Type).

Generic name currently spelt *Corydalu*s.

**indecisus** Walker (*Hermes*), 1953 : 203-204. Holotype ♀. Walker type label / *indecisa* / H. *indecisus* / *Hermes indecisus* Walker, ♀ Holotype, D. E. Kimmins det. 1969.

Currently placed as a synonym of *Chauliodes rastricornis* (Rambur), a North American species.

**infector** McLachlan (*Neuromus*), 1869 : 41; Weele, 1910 : 37 [type restricted to BMNH example]. Lectotype ♂. [India], Dhargeling / *Neuromus infector* McL.

Weele, 1910, restricted the type-series to the ♂ from Darjeeling, in BMNH and in effect designated it as lectotype.

**infumata** Newman (*Sialis*), 1838 : 500. Holotype ♀. [Locality and determination label blackened and almost illegible], *Sialis Latr.*, *infumata* Newm., [North America, Trenton Falls (Doubleday)] Ent. Club / *Sialis infumata* Newm., ♀ Holotype, D. E. Kimmins det. 1969.

Left hind wing missing, part of left fore wing mounted dry, abdomen in canada balsam.

**intimus** McLachlan (*Neuromus*), 1869 : 44-45. LECTOTYPE ♂. Ind[ia] / Saunders [Coll.] / *intimus* McL. type [W. F. Kirby's writing] / *Neuromus intimus* McL., ♂ Lectotype, D. E. Kimmins det. 1969.

McLachlan stated that the type locality was 'India orientali', but this appears to be an

error, as the two syntypes are labelled 'Ind[ia]' and 'Saunders [Coll.]'. Weele (1910 : 29) is also wrong in stating that the 'type was labelled "East Indies"', although he correctly quotes the other syntype as 'India (Collection Saunders)'. Had he quoted the type-data correctly, I would have accepted his statement as a lectotype designation.

**japonicus** McLachlan (*Chauliodes*), 1867 : 232. Holotype ♀. Japan / Chauliodes japonicus McL. (Type).

Currently placed in *Parachauliodes*.

**kimminsi** Aspöck (*Raphidia*), 1964 : 62; 1965 : 315-317, fig. 2. Holotype ♂. Turkey, Amasya, 1400 ft, 9.vi.1959 (K. M. Guichard) / Raphidia kimminsi H. & U. Aspöck, 1964, Holotypus ♂.

**koreanus** Weele (*Neochauliodes*), 1909 : 261; Kimmins, 1954 : 437-438, fig. 16 [Lectotype designation, as 'holotype']. Lectotype ♂. Korea, Seoul, viii (E. Scarlett) / Neochauliodes koreanus Weele, type / Abdomen in slide cabinet / Neochauliodes koreanus Weele, ♂ Lectotype, D. E. Kimmins det. 1969.

I regard my designation of '♂ holotype' as equivalent to lectotype.

**latratus** McLachlan (*Neuromus*), 1869 : 43-44. Holotype ♂. E[ast] Ind[ies] / latratus, McL. type [W. F. Kirby's writing].

Although labelled 'East Indies', our museum register states that most of this collection was from India. Currently placed in *Neoneuromus*.

**londinensis** Stephens (*Raphidia*), 1836 : 130. LECTOTYPE ♀. Stephens Coll. / Raphidia londinensis Steph., Lectotype ♀, D. E. Kimmins det. 1969.

Currently placed as a synonym of *Raphidia* (*Raphidilla*) *xanthostigma* Schummel.

**longicornis** Albarda (*Inocellia*), 1891 : 169-170, pl. 11, fig. 32. Holotype ♂. Type [McL. label] / 58 / California (Walsingham) / Longicornis Alb. / Inocellia longicornis Alb., ♂ Type, D. E. Kimmins det. 1969.

**maclachlani** Albarda (*Inocellia*), 1891 : 162-164, pl. 10, fig. 29. LECTOTYPE ♂. [Corsica], Porto Vecchio / 100 / Inocellia mclachlani Alb., det. H. Albarda / Inocellia maclachlani Alb., ♂ Lectotype, D. E. Kimmins det. 1969.

Abdomen of lectotype cleared and preserved in glycerine. There are 1 ♂, 2 ♀ paralectotypes in BMNH, the females being from Sardinia. Currently placed in the genus *Fibla*.

**maculicollis** Stephens (*Raphidia*), 1836 : 131. LECTOTYPE ♀. Stephens Coll. / maculicollis / Raphidia maculicollis Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

There is a second example ♀, also labelled *maculicollis*. Currently placed as *Raphidia* (*Atlantoraphidia*) *maculicollis* Stephens.

**maculifera** Walker (*Hermes*), 1853 : 203. Holotype ♀. Walker type label / Malabar, [with on reverse] 'Ent. Club' / H. maculifera, Malabar / Hermes maculifera Walker, ♀ Holotype, D. E. Kimmins det. 1969.

**maculipennis** Gray (*Hermes*), in Griffiths *et al.*, 1832 : 331. Holotype ♂. H. maculipennis (ruficollis Ramb.), Java.

According to the BMNH Register, this specimen was purchased in 1840, at Mr Children's sale.

**megacephala** Stephens (*Raphidia*), 1836 : 130. LECTOTYPE ♀. Stephens Coll. / megacephala / Raphidia megacephala Stephens, ♀ Lectotype, D. E. Kimmins det. 1969.

The head and prothorax of this example had become detached and wrongly gummed on to the metathorax of a specimen labelled 'Londinensis', with which it was an obvious misfit. Currently placed as a synonym of *Raphidia* (*Navasana*) *notata* Fabricius. A second example, labelled 'megacephala', is *R. cognata*.

**montanus** McLachlan (*Neuromus*), 1869 : 42; Kimmins, 1949 : 780-781, fig. 23. Holotype ♀. Sikkim, Lacken, 9000 ft, / N. Ind[ia] / Neuromus montanus McL.

The type has badly battered wings; abdomen cleared and mounted in canada balsam.

**nigricollis** Albarda (**Raphidia**), 1891 : 142–144, pl. 8, fig. 22. LECTOTYPE ♂. Frankf[urt] a[m] M[ain] / 58 / Raphidia nigricollis Alb., det. H. Albarda / Raphidia nigricollis Albarda, ♂ Lectotype, D. E. Kimmins det. 1969.

In addition, there are 2 ♂ and 3 ♀ paralectotypes in BMNH. Currently placed in *Raphidia* (*Venustoraphidia*).

**obscurus** Weele (**Neochauliodes**), 1909 : 262–263. Holotype ♀. Pres[ented] by Dr Watts, Manipur / Neochauliodes obscurus Weele, 1908, type.

**occidentalis** Weele (ssp. **Neochauliodes sinensis**), 1909 : 266; Kimmins, 1954 : 438–439, figs 17a–c [Lectotype designation (as 'holotype')]. Lectotype ♂. [W. China], Omei-Shan / Neochauliodes sinensis Wlk., occidentalis Weele Type / Abdomen in slide cabinet / Neochauliodes sinensis occidentalis Weele, ♂ Lectotype, D. E. Kimmins det. 1969.

I consider that my designation of a '♂ holotype' in 1954 as equivalent to lectotype.

**orientalis** McLachlan (**Corydalis**), 1899 : 281–283, pl. 9. Holotype ♂. W. China, Chia-ting-fu, [1000 ft, May] / Corydalis orientalis McL., Type. /

Currently placed in *Acanthacorydalis*.

**plomleyi** Kimmins (**Archichauliodes**), 1954 : 422–423, fig. 4. Holotype ♂. [Australia, New South Wales], Mt Irvine, [2300 ft], 25.xii.1934 (N. J. Plomley) / Abdomen in slide cabinet / Archichauliodes plomleyi Kim., D. E. Kimmins det. 1953.

One pair of wings mounted dry, abdomen in canada balsam.

**pontica** Albarda (**Raphidia**), 1891 : 102–104, pl. 4, fig. 6. LECTOTYPE ♂. 4I / [Asia Minor, Siwas], Amasia / Raphidia pontica Alb. / Raphidia pontica ♂ Lectotype, D. E. Kimmins det. 1969.

♂ abdomen cleared and preserved in glycerine. Currently placed in the genus *Agulla*. The ♀ paralectotype lacks head and pronotum. Albarda also lists an example without abdomen in the Berlin Museum and two females in Geneva.

**pusillus** McLachlan (**Chauliodes**), 1867 : 231–232. Holotype ♂. [locality unknown to McLachlan, S. Africa]. Chauliodes pusillus McL. (Type).

Currently placed in *Platychauliodes*.

**reedi** Kimmins (**Protochauliodes**), 1954 : 440–443, figs 20, 21. Holotype ♂. Chili (Reed) / Abdomen in slide cabinet / Protochauliodes reedi Kim., ♂, D. E. Kimmins det. 1953.

One pair of wings mounted dry, abdomen in canada balsam.

[**selysi** Weele (**Hermes**), 1909 : 256; 1910 : 89.

The BMNH has one example (lacking abdomen), which is labelled 'Type' by Weele, but in 1910 : 89 he indicates (by an asterisk in the specific list) that the 'type' [strictly lectotype] is in the Selys Collection. This is the damaged ♂ from Sylhet. Our example is therefore a paralectotype.]

**sibirica** McLachlan (**Sialis**), 1872 : 55–56, pl. 1, figs 10, 10a. LECTOTYPE ♂. Type [McL. label] / Sibér[ie] Orient. (Maack) / Sialis sibirica McL. / Sialis sibirica McL., ♂ Lectotype, D. E. Kimmins det. 1969.

There are two ♂ and three ♀ paralectotypes.

**simplex** Walker (**Chauliodes**), 1853 : 200. LECTOTYPE ♂. Walker type label / Silhet [Mr Argent's collection] / simplex / Chauliodes simplex Walker, ♂ Lectotype, D. E. Kimmins det. 1969.

One of the two paralectotypes, which carries Weele's determination label, was the specimen figured by him in 1909 and by Kimmins, 1954 : 433, figs 13a–c.

**sinensis** Walker (**Chauliodes**), 1853 : 199. LECTOTYPE ♂. North China / C. Sinensis, China / Abdomen in slide cabinet / Chauliodes sinensis Walker, ♂ Lectotype, D. E. Kimmins det. 1969.

The second example, from China, has not been traced in BMNH.

**sinensis** Walker (**Hermes**), 1853 : 203. See **bowringi** McLachlan (**Chauliodes**).

**subfasciatus** Westwood (*Chauliodes*), 1848 : 70, pl. 34, fig. 5. LECTOTYPE ♂. Sylhet / Saunders [Coll.] / Chauliodes subfasciatus, West. Cab. or. Ent., pl. 34, fig. 5 / Chauliodes subfasciatus Westwood, ♂ Lectotype, D. E. Kimmins det. 1969.

Both the lectotype and paralectotype males lack abdomens. Currently placed in *Neochauliodes*.

**subnubilus** Kimmins (*Protohermes*), 1949 : 770–771, figs 5–7. Holotype ♂. Birmah, Ruby Mines / Protohermes subnubilus Kim., ♂ TYPE, det. D. E. Kimmins.

Apex of abdomen mounted in canada balsam.

**tenuis** McLachlan (*Chauliodes*), 1869 : 38. Holotype ♂. S[outh] Afr[ica], Knysna, / C. tenuis type [W. F. Kirby's writing] / Chauliodes tenuis McL., S. Afr.

The holotype now lacks the right fore wing and the left hind wing. Currently placed in *Platychauliodes*.

**tonkinicus** Kimmins (*Anachauliodes*), 1954 : 428–429, figs 9, 10. Holotype ♂. Tonkin, Ngai-Tio, 22.iv.1924 (H. Stevens) / Abdomen in slide cabinet / Anachauliodes tonkinicus Kim., ♂, D. E. Kimmins det. 1953.

One pair of wings mounted dry, abdomen of holotype ♂ in canada balsam.

**truncatus** Kimmins (ssp. of *Neochauliodes sinensis*), 1954 : 440, fig. 19. Holotype ♂. [Assam], Khasia, Shillong, 5000 ft, 15.vi.1928 (T. Bainbridge Fletcher) / Abdomen in slide cabinet / Neochauliodes sinensis truncatus ♂ Kim., D. E. Kimmins det. 1953.

**umbratus** Kimmins (*Neochauliodes*), 1954 : 436, fig. 15. Holotype ♂. Indo-China (A. Vuillet) / Abdomen in slide cabinet / Neochauliodes umbratus Kim., ♂, D. E. Kimmins det. 1953.

**uniformis** Banks (*Protohermes*), 1931 : 412, figs 19, 20. Holotype ♂. B[ritish] N[orth] Borneo, Mt Kinabalu, Lumu Lumu, 5500 ft, 9.iv.1929 (H. M. Pendlebury) / Ex F.M.S. Museums / Protohermes uniformis Bks, type.

#### REFERENCES

ALBARDA, H. 1891. Révision des Rhaphidides. *Tijdschr. Ent.* **34** : 65–184, pls. 2–11.

ASPÖCK, H. & U. 1964. Zwei weitere neue Arten des Genus *Raphidia* L. (Neuroptera) aus Kleinasien (Vorläufige Beschreibung). *Ent. Nachrbl.*, Wien **11** (8) : 62.

— 1965. Zur Kenntnis der Raphidiiden von Südosteuropa und Kleinasien (Mit kritischen Bemerkungen zur Klassifikation der Familie). *Annln naturh. Mus. Wien* **68** : 309–364, 26 text-figs.

— 1968. Vorläufige Mitteilung zur generischen Klassifizierung der Raphidiodea (Insecta, Neuroptera). *Ent. Nachrbl.*, Wien **15** : 53–64.

— 1968a. Zwei neue Inocelliiden-Spezies aus Asien. *Ent. Ber., Amst.* **28** : 184–189, 3 figs.

AUBERT, J. 1950. Note sur les Plécoptères européens du genre *Taeniopteryx* Pictet (*Nepheloptyryx* Klapálek) et sur *Capnia vidua* Klapálek. *Mitt. schweiz. ent. Ges.* **23** : 303–316, 37 text-figs.

BANKS, N. 1931. Neuropteroid Insects from the Malay Peninsula. *J. fed. Malay St. Mus.* **16** : 377–409, 40 figs.

— 1931a. Neuropteroid Insects from North Borneo, particularly from Mt Kinabalu. *J. fed. Malay St. Mus.* **16** : 411–426, 20 figs.

— 1938. Further Neuropteroid Insects from Malaya. *J. fed. Malay St. Mus.* **18** : 220–235, 17 figs.

BARNARD, K. H. 1934. South African Stone-flies (Perlaria), with descriptions of new species. *Ann. S. Afr. Mus.* **30** : 511–548, 21 text-figs.

BRINCK, P. 1949. Studies on Swedish Stoneflies. *Opusc. ent. Suppl.* **11** : 1–250, 61 text-figs.

DESPAX, R. 1934. Plécoptères pyrénéens. VIII. Étude et description de quelques formes de Nemoures appartenant à *Nemura marginata* (Pict.) Klap. *Bull. Soc. Hist. nat. Toulouse* **66** : 255–270, 12 text-figs.

GRIFFITH, E. et al. 1832. *The Animal Kingdom arranged in conformity with its organization, by the Baron Cuvier, with supplementary additions to each order by Edward Griffith, F.L.S., A.S., and others.* Vol. XV. Supplement on the Neuroptera, pp. 301–352, pls. 105, 72. London.

KIMMINS, D. E. 1928. New and little known Neuroptera of Central America. *Eos, Madr.* 4 : 363–370, 7 text-figs.

— 1935. A new brachypterous *Isopteryx* from France. *Ann. Mag. nat. Hist.* (10) 15 : 645–650, 8 text-figs.

— 1938. Notes on the Plecoptera of New Zealand, with descriptions of new species. *Ann. Mag. nat. Hist.* (11) 2 : 561–580, 15 text-figs.

— 1938a. *Hermes dubitatus* and *Hermes diversus* Walker (Sialidae, Megaloptera). *Ann. Mag. nat. Hist.* (11) 2 : 354–358, pl. 13, 10 text-figs.

— 1941. A new species of Nemouridae (Plecoptera). *J. Soc. Br. Ent.* 2 (3) : 89–93, figs 13–14.

— 1943. *Rhabdiopteryx anglica*, a new British species of Plecoptera. *Proc. R. ent. Soc. Lond.* (B) 12 : 42–44, 8 figs.

— 1947. New species of Himalayan Plecoptera. *Ann. Mag. nat. Hist.* (11) 13 : 721–740, 14 text-figs. [Issue dated November 1946, but actual date of publication 13 Oct. 1947, due to post-war publication delays.]

— 1948. A new species of *Anacroneuria* (Plecoptera Perlidae) from Trinidad. *Proc. R. ent. Soc. Lond.* (B) 17 : 105–106, 5 text-figs.

— 1949. Notes on the genus *Protohermes* Weele (Megaloptera), with descriptions of two new species. *Ann. Mag. nat. Hist.* (12) 1 : 765–781, 23 text-figs. [This is the Nov. 1948 issue, which was actually published in March 1949.]

— 1950. Some new species of Asiatic Plecoptera. *Ann. Mag. nat. Hist.* (12) 3 : 177–192, 26 text-figs.

— 1950a. Some Assamese Plecoptera, with descriptions of new species. *Ann. Mag. nat. Hist.* (12) 3 : 194–209, 17 text-figs.

— 1951. A revision of the Australian & Tasmanian Gripopterygidae and Nemouridae (Plecoptera). *Bull. Br. Mus. nat. Hist. (Ent.)* 2 (2) : 43–93, 40 text-figs.

— 1954. A new genus and some new species of the Chauliodini (Megaloptera). *Bull. Br. Mus. nat. Hist. (Ent.)* 3 (11) : 415–444, 22 text-figs.

KLAPÁLEK, F. 1909. Vorläufiger Bericht über exotische Plecoptera. *Wien. ent. Z.* 28 : 215–232.

— 1912. Perlodidae. *Collns zool. Selys-Longchamps*, IV (1) : 1–66, 58 text-figs.

— 1912a. Plecopterum Genus : *Kamimuria* Klp. *Čas. české Spol. ent.* 9 (2) : 103–110.

— 1916. Subfamilia Acroneurinae Klp. *Čas. české Spol. ent.* 13 : 45–84.

— 1921. Pléoptères Nouveaux. I. Sousfamille des Perlinae et Neoperlinae (Travail posthume). *Annls Soc. ent. Belg.* 61 : 57–67, 320–327.

— 1922. Pléoptères Nouveaux (Travail posthume). Quatrième partie. *Annls. Soc. ent. Belg.* 62 : 89–95.

— 1923. Fam. Perlidae. *Collns zool. Selys-Longchamps* IV (2) : 1–193, 61 text-figs.

LORD, J. K. 1866. *The Naturalist in Vancouver Island and British Columbia* 2. London.

MCLACHLAN, R. 1866. Descriptions of a new neuropterous insect belonging to the genus *Corydalis* Latreille. *J. ent. London* 14 : 1–2, pl. 20.

— 1867. New Genera and species, etc., of Neuropterous insects; and a revision of Mr F. Walker's British Museum Catalogue, part ii (1853), as far as the end of the genus *Myrmeleon*. *J. Linn. Soc. (Zool.)* 9 : 230–281, pl. viii.

— 1869. Considerations on the neuropterous genus *Chauliodes* and its allies; with notes and descriptions. *Ann. Mag. nat. Hist.* (4) 4 : 35–46.

— 1870. On the occurrence of the neuropterous genus *Sialis* in Chili. *Entomologist's mon. Mag.* 7 : 145–146.

— 1872. Matériaux pour une faune névroptérologique de l'Asie septentrionale. Seconde partie, Non-Odonates. *Annls Soc. ent. Belg.* 15 : 47–77, 1 pl.

MCLACHLAN, R. 1875. A sketch of our present knowledge of the neuropterous fauna of Japan (excluding Odonata and Trichoptera). *Trans. ent. Soc. Lond.* **1875** : 167-190.

— 1895. A small contribution to a knowledge of the neuropterous fauna of Rhenish Prussia. *Entomologist's mon. Mag.* (2) **6** : 109-112.

— 1899. A second asiatic species of *Corydalis*. *Trans. ent. Soc. Lond.* **1899** : 281-283, pl. 9.

MENDL, H. 1968. Zur Unterscheidung von zwei *Leuctra*-Arten. (*L. cingulata* Kempny und *L. pseudocingulata* nov. nom.). *Mitt. schweiz. ent. Ges.* **41** : 305-319, 7 text-figs.

MORTON, K. J. 1894. Palaearctic *Nemourae*. *Trans. ent. Soc. Lond.* **1894** : 557-574, pls. 13-14.

— 1930. Plecoptera collected in Corsica by Mr Martin E. Mosely. *Entomologist's mon. Mag.* **66** : 75-81, pl. 2.

MOSELY, M. E. 1930. New European Trichoptera and Plecoptera. *Trans. ent. Soc. Lond.* **78** : 237-253, pl. 14, 33 text-figs.

— 1932. A revision of the european species of the genus *Leuctra* (Plecoptera). *Ann. Mag. nat. Hist.* (10) **10** : 1-41, 5 pls., 57 text-figs.

— 1935. New Trichoptera and Plecoptera in France : some Auvergne Plecoptera. *Trans. R. ent. Soc. Lond.* **83** : 557-562, 8 text-figs.

NEEDHAM, J. G. & CLAASSEN, P. W. 1925. *A monograph of the Plecoptera, or Stoneflies of America north of Mexico*. Entomological Society of America, Thomas Say Foundation **2**, 397 pp., 50 pls., 29 text-figs.

NEWMAN, E. 1833. Entomological Notes. *Ent. Mag.* **1** : 413-416.

— 1838. Entomological Notes. *Ent. Mag.* **5** : 168-181, (372-402), 469-483.

— 1839. On the synonymy of the Perlites, together with brief characteristics of the old, and a few new species. *Mag. nat. Hist. (N. S.)* **3** : 32-37, 84-90.

— 1845. Addendum to 'Synonymy of the Perlites, by Edward Newman', published in the *Mag. Nat. Hist.* for 1839. *Zoologist* **3** : 852-854.

NEWPORT, G. 1848-49. *Proc. Linn. Soc. Lond.* i : 388-389 (20.vi.1848) [p. 388 published in 1848, 389 in 1849].

— 1851. Descriptions of some American Perlidae, together with notes on their habits. *Trans. Linn. Soc. Lond.* **20** (3) : 447-452.

RICKER, W. E. 1938. Notes on specimens of American Plecoptera in European collections. *Trans. R. canad. Inst.* **22** (1) : 129-156, 38 figs.

SMITH, L. W. 1917. Studies of North American Plecoptera (Pteronarcinae and Perlodini). *Trans. am. ent. Soc.* **43** : 433-489, pls. 29-34.

STEPHENS, J. F. 1836-37. *Illustrations of British Entomology; or a Synopsis of Indigenous Insects; containing their generic and specific distinctions; with an account of their metamorphoses, times of appearance, localities, food and economy, as far as practical*. Vol. **6**. [Date of publication of Plecoptera and Megaloptera, 15.viii.1836.] London.

TILLYARD, R. J. 1919. Australian Megaloptera or alder-flies. *Proc. Linn. Soc. N.S.W.* **43** : 819-825.

— 1921. A new classification of the Order Perlaria. *Can. Ent.* **53** : 35-43, figs 1-4.

— 1921a. Revision of the family Eustheniidae (Order Perlaria) with descriptions of new genera and species. *Proc. Linn. Soc. N.S.W.* **46** : 221-236, pls xi-xv, 4 text-figs.

— 1921b. The wing-venation of the Leptoperlidae (Order Perlaria), with description of a new species of the genus *Dinotoperla* from Australia. *Trans. R. Soc. S. Austr.* **45** : 270-274, 4 text-figs.

— 1924. New genera and species of Australian Stone-flies (Order Perlaria). *Trans. R. Soc. S. Austr.* **48** : 192-195, 3 text-figs.

WALKER, F. 1852. *Catalogue of the specimens of neuropterous insects in the collection of the British Museum*. Part I. 192 pp. London.

— 1860. Characters of undescribed Neuroptera in the Collection of W. W. Saunders, Esq., F.R.S., &c. *Trans. ent. Soc. Lond.* (2) **5** : 176-199.

WEELE, H. W. VAN DER. 1909. New genera and species of Megaloptera. *Notes Leyden Mus.* **30** : 249-264.

— 1910. Megaloptera. *Collns zool. Selys Longchamps* 5 (1) : 93 pp., 4 pls., 70 text-figs.  
WESTWOOD, J. O. 1848. *The Cabinet of Oriental Entomology: being a selection of the rarer and  
more beautiful species of insects, natives of India and the adjacent islands, the greater portion  
of which are now for the first time described and figured.* 88 pp., 42 pls. London.



D. E. KIMMINS  
*Dept. of Entomology*  
BRITISH MUSEUM (NATURAL HISTORY)  
CROMWELL ROAD  
LONDON, S.W.7